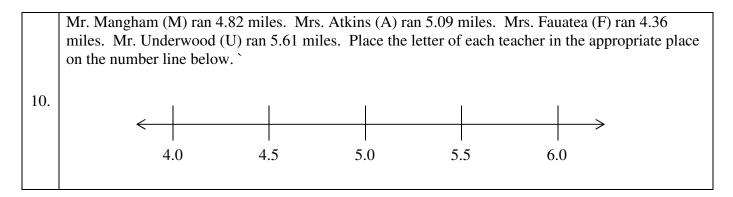
1.	Mr. Quintana used the elevator to make deliveries on different floors of an office building. He entered the elevator, rode up 4 floors, rode down 2 floors, rode up 6 floors, and then rode down 1 floor, where he made his last delivery. Which expression can be used to find the floor on which Mr. Quintana made his last delivery?A. $4-2+6-1$ C. $1-4-2+6-1$
	B. 4+2-6+1 D. 4+2+6+1
2.	The low temperature on Saturday was 10 degrees below zero Celsius. On Sunday, the low temperature was 30 degrees above zero Celsius. What integer represents the low temperature on Saturday in degrees Celsius?
	Acorn woodpeckers live in families. The family members collect acorns and store them in the trunks of trees. The table below shows information about the number of acorns collected and eaten by a family of woodpeckers on 3 days. Which expression best describes the information in the table if the family had stored 428 acorns before Monday?
	Acorns Collected and Eaten
3.	DayNumber CollectedNumber EatenMonday238Tuesday2910Wednesday429
	A. $428 - 23 + 8 - 29 + 10 - 42 + 9$ C. $23 - 8 + 29 - 10 + 42 - 9 - 428$
	B. $428+23-8+29-10+42-9$ D. $23+8-29+10-42+9+428$
4.	D: 420 (25) 0 (25) 10 (42) (5) (5) (5) (5) (5) (42) (42) (42) (42) (42) (42) (42) (42

1.	Mr. Mangham had 682 brain cells at the beginning of the school day. By the end of the day his brain cells had dropped to 257. How many brain cells did he lose during the day?	
2.	Harry Potter found 1244 jelly beans in his room at Hogwarts. He split them up into 9 equal groups to give to friends. How many jelly beans were in each group?	
3.	Scooby-Doo loves Scooby snacks. He eats 16 snacks every TV episode. If there are a total of 254 Scooby-Doo episodes, how many total snacks does he eat?	
4.	Mr. Underwood does not like UT. His students surprised him and gave him 2342 UT stickers for his birthday. By the end of the day he was able to give 898 stickers away. How many did he still have left?	
5.	You go shopping and buy 8 pens at \$2 each, 4 notebooks at \$6 each and a book for \$17. If you give the cashier \$100, how much change do you get back?	
6.	A private movie theater has the seats arranged in the shape of a square. There are 6 rows with 6 seats each. Draw a picture below to represent the seating arrangement and determine the total number of seats. Write your answer using an exponent and as a normal whole number.	
7.	Mrs. Atkins reads books that have an average of 496 pages. If she read 11 books last month, which of the following is the best estimate of the number of pages she read? A. 600 pages B. 4000 pages C. 5000 pages D. 50 pages	

8.	Mrs. Landry decided to count the ants crawling across her room. There were a total of 572 ants. The next day she counted 54 less ants. How many ants were there on day 2?	
9.	There are 19 secret rooms at DIS. In each of these secret rooms there are 289 Hershey bars. How many total Hershey bars are there?	
10.	Katniss and Tris decided to team up and go save the world. Their trip lasted 1791 days and they visited 9 different countries. If each visit lasted the same amount of time, how many days did they spend in each country?	
11.	Mr. Wright collects purple and orange Skittles in his spare time. He has a total of 1187 Skittles and 514 of them are orange. How many are purple?	
12.	You go shopping and buy 3 pens at \$1 each, 2 notebooks at \$2 each and a book for \$7. If you give the cashier \$20, how much change do you get back?	
13.	A classroom has 7 rows of desks with 7 desks in each row. How many desks are in the classroom?	
14.	 There are 296 marshmallows in one bag. If Mrs. Fauatea buys 21 bags to throw at her students, which of the following is the best estimate of the number of marshmallows her students will be cleaning up off the floor? A. 15 marshmallows B. 280 marshmallows C. 4000 marshmallows D. 6000 marshmallows 	

1.	Mrs. Shabanaj loves spinach. She buys 5.2 pounds of spinach Monday, 6.3 pounds of spinach on Tuesday, and 3.8 pounds of spinach on Wednesday. If her goal is to buy 30 pounds of spinach, how many more pounds does she need to buy?	
2.	Gas prices at four local stations were: \$3.599, \$3.649, \$3.469, and \$3.559. Write the prices in order from least to greatest.	L G
3.	Mr. Wright built a tower in Minecraft that was 147.62 feet tall. Mr. Mangham built a tower that was 168.355 feet tall. What is the combined height of the two towers?	0
4.	Batting averages are rounded to the nearest thousandths. In 2012, Joe Mauer, catcher for the Minnesota Twins, had a batting average of 0.2876. How will his 2012 batting average be listed on his baseball card if it is rounded to the nearest thousandth?	
	Mr. Mangham (M) ran 4.12 miles. Mrs. Atkins (A) ran 5.46 miles. Mrs. Femiles. Mr. Underwood (U) ran 4.6 miles. Place the letter of each teacher in on the number line below.	
5.	4.0 4.5 5.0 5.5	
6.	You are exercising on a treadmill. You walk for 2.2 miles, jog for 3.2 miles, and walk for another 1.9 mile. Your goal is to walk or jog for a total of 10 miles. How much further must you walk or jog?	
7.	The batting averages of four players on a baseball team are: 0.298, 0.336, 0.283, 0.332. Write the batting averages in order from greatest to least.	G L
8.	Ms. Anderson had a piece of wood that was 16.799 inches and she bought and additional 8.08 inches. How much wood does she have altogether?	
9.	Batting averages are rounded to the nearest thousandths. In 1996, Mike Stanley, catcher for the Boston Red Sox, had a batting average of 0.2695. How will his 1996 batting average be listed on his baseball card if it is rounded to the nearest thousandth?	



Solve.

11.	27.06+7.06	12.	11.74-2.38	
13.	21.2-4	14.	39.2-32.81	
15.	9.14+0.8	16.	425+6.39-0.05	

Round each number to the underlined place value.

17.	1.7 <u>2</u> 6	18	18.	80. <u>6</u> 59	
19.	75 <u>8</u> .59	20	20.	27. <u>4</u> 9	

1.	In some fantasy football leagues people don't round their scores to whole numbers, but keep their scores with decimals. One week Mrs. Landry scored 152.7 points, Mrs. Fauatea scored 152.38 points, and Mr. Underwood scored 152.099 points. Which teacher had the highest score that week?	
2.	The DIS teachers all went to the Lady Gaga concert together. Mr. Mangham paid \$6 more for his concert ticket than Dr. Giffin. If Mr. Mangham paid \$124.87, how much did Dr. Giffin pay?	
3.	Olivia, Delaney, Kylie, and Claire each pitched in \$8.35 to pay for a new iPhone case to give as a birthday present. Not including tax, what was the cost of the case? A. \$12.35 C. \$32.40	
4.	B. \$33.40D. \$28.20Drew went to swimming at the beach. The water temperature was 75 degreesand the air temperature was 91 degrees. He swam for 6.08 miles before lunch,12.86 miles after lunch, and two times around the 5.12 mile loop after dinner.Estimate Drew's total swim distance.A. 166 milesC. 24 milesB. 23 milesD. 29 miles	
5.	The five members of One Direction decided to sit down together to write the best song ever. Their fans had already submitted 26 ideas for the song. Each member then brainstormed 14 additional ideas for the song. After deciding to eliminate 32 of the suggestions, their producer then divided the list into four equal groups: Best Songs Ever, Good Songs, Not Very Good Songs, and Worst Songs Ever. This expression represents the number songs in each list: $(26+5\cdot14-32) \div 4$ How many songs were on each list?	
6.	12 ² A. The answer is 14 because $12+2=14$. B. The answer is 24 because $12 \cdot 2 = 24$. C. The answer is 144 because $12 \cdot 12 = 144$. D. The answer is 6 because $12 \cdot 2 = 6$.	
7.	You spend \$13.41 for 6 pounds of banana pudding. Divide to find the cost per pound, rounded to the nearest cent.	

8.	Mrs. Fauatea wants to paint her entire room Oklahoma State orange. She determines that it will take her 1.4 hours for each can of paint that she uses. After using 8.1 cans of paint she is finally finished. How long did it take her to paint her room?	
	A. 9.5 hours C. 113.40 hours B. 95 hours D. 11.34 hours	
9.	Mr. Mangham makes \$17.50 per hour producing commercials for GEICO. To create the Hump Day commercial he worked 40 hours a week for 3.5 weeks. How much money did Mr. Mangham earn?	
10.	Mrs. Gilbreth loves to play sports. She bought three basketballs at \$14.95 each, five volleyballs at \$24.95 each, and a softball for \$11.05. Using estimation, about how much did she spend in all?	
	A. \$49.00 C. \$173.00 B. \$51.00 D. \$181.00	
11.	Michael went to the library to get some information about bees for a project. He was looking for books with the call numbers 638.178 and 638.186. Which number comes first?	
12.	Chris hiked 4 miles less than Matt. If Chris hiked 13.04 miles, how far did Matt hike?	
	Blake, Andrew, and Kyle were starving after school. They ordered a large pizza to share. If each boy paid \$5.63, how much did the pizza cost?	_
13.	A. \$2.63C. \$15.89B. \$16.89D. \$1.88	
14.	Taylor was in Tom Thumb to pick up a few things. She only had \$20 in her wallet. If she needed bread for \$2.89, milk for \$3.09, lettuce for \$1.29, charcoal for \$6.79, and soap for \$4.79 estimate her total grocery bill.	
	A. \$19.00C. \$1.90B. \$29.00D. \$14.00	
15.	Joey the bunny rabbit was gathering carrots for his family. He started with 8 carrots in his bag. He found 2 groups of 12 carrots in someone's garden, but then lost 4 carrots as he was being chased away for stealing. Then on his way home he had to give away half of the remaining carrots as tax to the rabbit government. This expression represents the number of carrots Joey had when he got home:	
	$(8+2\bullet 12-4)\div 2$	
	What is the number of carrots he had when he got home?	

16.	You spend \$6.31 for 2 pounds of oranges. Divide to find the cost per pound, rounded to the nearest cent.	
	Mr. Underwood wants to use 204 pounds of Aggie Barbeque Sauce. Each container holds 8 pounds of sauce. How many containers will he need to use to reach 204 pounds?	
17.	 A. 25.5 containers B. 196 containers C. 254 containers D. 23 containers 	
18.	Savannah earns \$11.50 per hour for helping Ms. Smith in the DIS garden. If she worked 11 hours per week for 2.5 weeks, then how much did she earn total?	
	Mrs. Snow bought 5 pencils at \$3.89 each, 6 pens at \$0.95 each, and 11 notebooks at \$5.05 each. Using estimation, about how much will she spend in all?	
19.	 A. \$73.00 B. \$81.00 C. \$88.00 D. \$95.00 	

1.	Mrs. McKnight decided that she would travel up to Oklahoma City and back for four consecutive weekends. The one-way distance from her house and Oklahoma City is between 180 and 190 miles. Which of the following could have been her total distance traveled during the four weekends? A. 370 miles B. 740 miles C. 1010 miles D. 1480 miles	
2.	Mrs. Moore drew two huge Ts on her butcher paper to represent Texas Tech. The width of the large T was 1.65 feet. The length of the large T was a 0.75 feet longer than the width. What was the length of the large T?	
3.	 Harry Potter was looking for a very specific wand. The wand he needed had to be between 14.3 and 14.5 inches long. Which one of the following wands would work for Harry? A. 14.04 inches B. 14.4 inches C. 14.51 inches D. 14.048 inches 	

Write each phrase as an algebraic expression or equation.

4.	Twelve more than five times d	5.	9 multiplied by a number is 63	
6.	the quotient of <i>s</i> and 12 is 6	7.	Three times a number decreased by 10	

8.	That is the total amount spont of teachers on deals.				
	A. \$44 C. \$96				
	B. \$80 D. \$112				
	Mr. Underwood was measuring the length of a shark he caught in his pool. The				
	length of the shark was between 7.4 and 7.5 meters long. Which of the following				
	could be the length of the shark?				
9.	A. 7.04 meters				
	B. 7.52 meters				
	C. 7.38 meters				
	D. 7.46 meters				

10.	Mrs. Atkins made a drawing of her favorite narwhal. The length of the painting was 8.8 inches and the width of the painting was 2.4 inches less than the length. What was the width of the painting?	
11.	Mr. Wright downloaded some awesome apps to his new Windows phone. The cost of the apps was between \$1.99 and \$3.99 each. If he bought 8 apps, which of the following is the best estimate of the amount he spent on the apps? A. \$10 B. \$24 C. \$48 D. \$50,000	

Write each phrase as an algebraic expression or equation.

12.	three less than two times c	13.	10 divided by a number is 16	
14.	the product of y and 8	15.	twice a number increased by 7 is 55	

	Tris spent \$45 on her new Dauntless inform. Tobias spent \$7 more than Tris and Tori spent \$12 less than Tris. What is the total amount spent on these three uniforms?					
10.	A. \$52 B. \$33	C. \$97 D. \$130				

1.	There were 32 students playing on the playground at the start of recess. Five minutes later <i>x</i> students had joined the original group. Which expression shows the total number of people on the playground?									
	A. $32 + x$ B. $32 - x$ C. $32x$ D. $x \div 32$									
2.	Mr. Underwood's kickball team scored 28 total runs in their first four games. If they ended their eight game season with 52 runs, which expression could be used to find how many total runs they scored in their final four games?									
	A. 52+28 B. 52•4-28 C. 52+28•8 D . 52-28									
3.	Six Flags charges \$80 for a season pass. Your family buys 4 season passes and your family spends \$20 on food each time you visit. If you visit 8 times which equation represents <i>t</i> , the total amount of money spent on admission and food?									
	A. $t = 80 + (8 \bullet 20)$ C. $t = (4 \bullet 80) + (4 \bullet 20)$									
	B. $t = (4 \bullet 80) + (8 \bullet 20)$ D. $t = 80 + 20$									
4.	You get an allowance of \$15 a week plus \$2 for each chore you perform. If you earned \$37 last week which equation could be used to find <i>n</i> , the number chores you performed?									
	A. $(15+2) \bullet n = 37$ C. $15n+12 = 37$									
	B. $15 - 2n = 37$ D. $15 + 2n = 37$									
5.	There were 20 people playing Survivor. At one point <i>x</i> people had been voted off the island. Which expression shows the number of people left playing the game?									
	A. $20+x$ B. $20-x$ C. $20x$ D. $x \div 20$									
6.	Mrs. Shabanaj joined Amazon Prime for \$79 so that she could get all of her books shipped for free. She bought <i>b</i> books that cost \$12 each. How much money did Mrs. Shabanaj spend in total?									
	A. $79b+12$ B. $79+12b$ C. $79-\frac{b}{12}$ D. $(79+12)b$									
7.	Medieval Times charges \$59 for adult tickets and \$36 for child tickets. A family of 2 adults and 3 children attend the show. Write an equation to find <i>t</i> , the total cost of the family of five to attend.									
	A. $t = 59 + 36$ C. $t = (59 \times 3) + (36 \times 2)$									
	B. $t = (59+36) \times 5$ D. $t = (59 \times 2) + (36 \times 3)$									
	An electrician charges \$60 for a service call, plus \$75 per hour for labor. If the bill was \$210, which equation could be used to find <i>n</i> , the number of hours worked?									
8.	A. $210 = 60 + (75 \bullet n)$ C. $210 = (60 + 75) \bullet n$									
	B. $210 = (60 \bullet n) + 75$ D. $210 = 60 - (75 \bullet n)$									

	Input	Output		Input	Output		Input	Output
9.	2	14	10.	70	52		72	24
	4	28		60	42		66	22
	6	42		50	32	11.	60	20
	8	56		40	22		54	18
	10	70		30	12		48	16
	x			x			x	

For each table below describe the relationship between the input and the output.

12.

Pepperonis, p	60	90	120	150	180
Pizzas, z	2	3	4	5	6

Based on the information in the table, which expression can be used to find z, the number of pizzas containing p pepperonis?

A. p+30 B. p-58 C. $p \div 30$ D. $30 \bullet p$

13.

Length, l	12	18	24	30	36
Width, w	16	22	28	34	40

Based on the information in the table, which expression can be used to find w, the width of an object with length l?

A. *l*+4 B. *l*-4 C. *l*+6 D. *l*-6

	Input	Output		Input	Output		Input	Output
14.	15	35	15.	50	25		8	24
	20	40		40	20		10	30
	25	45		30	15	16.	12	36
	30	50		20	10		14	42
	35	55		10	5		16	48
	X			x			x	

For each table below describe the relationship between the input and the output.

17.

Football games, f	5	10	15	20	25
Touchdowns, t	30	60	90	120	150

Based on the information in the table, which expression can be used to find t, the number of touchdowns that are scored in f games?

A. f+5 B. 2f C. f+25 D. 6f

18.

Cats, c	22	32	42	52	62
Dogs, d	17	27	37	47	57

Based on the information in the table, which expression can be used to find d, the number of dogs if there are c cats?

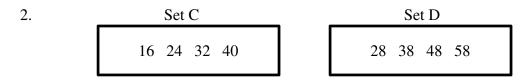
A. *c*-5 B. *c*+10 C. 10*c* D. *c*-10

1.



Which statement best describes a common characteristic of Set A but **NOT** a common characteristic of Set B?

- A. The numbers are all divisible by 5.
- B. The numbers are all divisible by 3.
- C. The numbers are all greater than 10.
- D. The numbers are all composite.



Which statement best describes a common characteristic of Set C or Set D?

- A. Each number in Set D is less than 50.
- B. Each number in Set D is divisible by 8.
- C. Each number in Set C has less than 5 factors.
- D. Each number in Set C is divisible by 2, 4, and 8.

3.	How many prime numbers are there between 70 and 80?	
4.	Which of the following are true (list all letters that are true)?A. Composite numbers always have two as a factor.B. Every number ending in five has the number 5 as a factor.C. Every number that is divisible by 4 is also divisible by 2.D. Mr. Underwood was known as "Prime Time" when he played football.	
5.	Mrs. Atkins is having a Sushi and Skittles Celebration. She has 48 California rolls and 64 Skittles. Each student attending will receive the same food plate and all the food will be distributed. What is the greatest number of students who can attend the party? A. 2 C. 16 B. 8 D. 24	

6.	A lemon meringue pie is divided into numbers of people you could divide i left over?		
	A. 1, 2, 15, 30 B. 1, 2, 3, 5, 6, 10, 15, 30	C. 1, 2, 3, 4, 5, 6, 8, 10, 15, 30 D. 2, 3, 10, 15	
7.	Mr. Mangham has 72 football cards. each group has the same number of car represent the number of cards he coul		
	A. 6 C. 18 B. 9 D. 32		

8.-9. Find the prime factorization of the following numbers by creating a factor tree. Write your answer with exponents.

52	108
Tree	Tree
Answer	Answer

10.-11. Find the Greatest Common Factor (GCF) by creating factor trees and then a Venn diagram.

25,		42,	70	
25	45		42	70
Venn		Venn		
GCF		GCF		



Which statement best describes a common characteristic of Set A or Set B?

- A. Each number in Set B is prime.
- B. Each number in Set A is divisible by 6.
- C. Each number in Set A is divisible by both 3 and 5.
- D. Each number in Set B is odd.

13.

12.

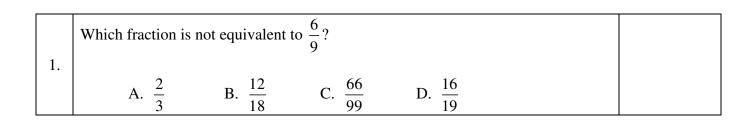
 Set C
 Set D

 31
 51
 71
 91
 135
 423
 711
 981

Which statement best describes a common characteristic of Set C or Set D?

- A. Each number in Set C is prime.
- B. Each number in Set C is divisible by 3.
- C. Each number in Set D is divisible by both 4 and 5.
- D. Each number in Set D is divisible by both 3 and 9.

14.	Which of the following are true (list all letters that are true)?A. One is a prime number because it only has one factor.B. One is not a prime number because it only has one factor.C. One is a composite number because it has many factors.D. One is neither prime nor composite.		
15.	Mrs. Fauatea is having a Pez & Peppermints Party. She has 90 Pez and 75peppermints. Each student attending will receive the same food bag and all thefood will be distributed. What is the greatest number of students who can attendthe party?A. 5C. 10		
	B. 15 D. 25		
	A cookie cake is divided into 24 pieces. What are all the different numbers of people you could divide it equally among so that there are no pieces left over?		
16.			
	A. 2, 3, 8, 12C. 1, 4, 6, 24B. 1, 2, 3, 4, 6, 9, 18D. 1, 2, 3, 4, 6, 8, 12, 24		
17.	Mrs. Hawley has 32 books. She wants to put the books into groups so that each group has the same number of books. Which of the following does NOT represent the number of books she could put into each group?		
	A. 8 C. 4		
	B. 12 D. 16		



2.

Set A	Set B
$\frac{1}{8}$ $\frac{5}{12}$ $\frac{3}{5}$ $\frac{4}{7}$	$\frac{2}{6}$ $\frac{6}{9}$ $\frac{6}{14}$ $\frac{7}{21}$

Which statement best describes a common characteristic of Set A but NOT of Set B?

- A. The fractions are all greater than one whole.
- B. The fractions are all less than one whole.
- C. The fractions are all in simplest form.
- D. The fractions are all equivalent.

3.	You are buying donuts for breakfast. You buy 4 blueberry, 12 chocolate, 2 glazed, and 3 sprinkle donuts. Find the fraction of the donuts that are chocolate. Write your answer in simplest form.	
4.	Mrs. Hawley plants a variety of flowers in her flower bed. She plants $\frac{1}{4}$ of the flower bed with lilies, $\frac{7}{16}$ with roses, $\frac{1}{8}$ with pansies, and $\frac{3}{16}$ with daises. Which flower takes up the most room in the flower bed? Which flower takes up the least room in the flower bed?	Most Least
5.	You have a twelve pack of Dr. Pepper. You give four cans away to your favorite math teacher and two can away to your favorite LA teacher. What fraction of the cans do you have left?A. $\frac{4}{12}$ B. $\frac{2}{12}$ C. $\frac{1}{2}$ D. $\frac{12}{6}$	

Order the fractions from greatest to least.

6. $\frac{1}{4}, \frac{2}{10}, \frac{2}{7}$	7. $\frac{6}{5}, \frac{6}{7}, \frac{9}{10}$
---	---

8.	The cafeteria serves octopus every 6 days and the cafeteria serves lima beans every 8 days. How many times over a 100 day period will you be able to enjoy octopus with lima beans?A. 2B. 4C. 6D. 8
9.	Katy Perry got a hit 2 out of 7 times in a baseball game. In the same gameRihanna got a hit in 1 out of 5 at-bats and Selena Gomez got a hit 2 out of 6 at- bats. Who had the best (highest) batting average?A. Katy and Selena tied since they each got 2 hits.B. Selena because $\frac{2}{6}$ is the largest fraction.C. Rihanna since she only had 5 at-bats.D. Katy because $\frac{2}{7}$ has the largest denominator.
10.	The iTunes Store is celebrating its anniversary by giving away a free app to every 15^{th} customer. In addition, every 20^{th} customer will receive a free song. What are the numbers of the first 3 customers to win both a free app and a free song?

Write each improper fraction as a mixed number in simplest form.

11	9	12	22	
11.	5	12.	8	

Write each mixed number as an improper fraction.

		1 1			
13.	$6\frac{2}{3}$		14.	$9\frac{4}{5}$	

Create a factor tree and Venn diagram to solve the following questions.

1516. 30, 36	1718. 12, 54
GCF of 30 and 36:	GCF of 12 and 54:
LCM of 30 and 36:	LCM of 12 and 54:

10	Which fraction is n	ot equivalent to	$0 \frac{18}{24}$?		
19.	A. $\frac{3}{4}$	B. $\frac{28}{34}$	C. $\frac{36}{48}$	D. $\frac{180}{240}$	

Set A	Set B
$\frac{5}{8} \frac{7}{12} \frac{2}{3} \frac{11}{20}$	$\frac{1}{6}$ $\frac{5}{9}$ $\frac{6}{14}$ $\frac{7}{21}$

Which statement best describes a common characteristic of Set A or of Set B?

- A. The fractions in Set B are all less than one-half.
- B. The fractions in Set B are all in simplest form.
- C. The fractions in Set A are all greater than one-half.
- D. The fractions in Set A are all improper fractions.

21.	You are buying breakfast bagels. You buy 3 blueberry, 6 plain, 5 cinnamon raisins, and 1 honey grain. Find the fraction of the bagels that are cinnamon raisin. Write your answer in simplest form.	
22.	A farmer plants a variety of crops on his land. The farmer plants $\frac{1}{12}$ of the land	Most
	with corn, $\frac{1}{4}$ with soybeans, $\frac{3}{8}$ with wheat, and $\frac{3}{16}$ with potatoes. Which crop takes up the most land? Which crop takes up the least land?	Least
23.	You have a package of gum with fifteen pieces. You give three pieces away to your sister and two pieces away to your brother. What fraction of the package do you have left?	
	A. $\frac{2}{3}$ B. $\frac{1}{3}$ C. $\frac{12}{15}$ D. $\frac{1}{5}$	
24.	You and a friend are playing basketball. You only make 3-point baskets, while your friend only makes 2-point baskets. List 4 different scores at which you and your friend could be tied.	
25.	Carol made 8 out of 10 free throws, Sam made 7 out of 8 free throws, and Fred made 6 out of 7 free throws. Who was the most accurate?	
	A. Carol because she shot the most free throws. B. Fred because he only missed one free throw. C. Sam because $\frac{7}{8}$ is greater than $\frac{8}{10}$ and greater than $\frac{6}{7}$.	
	8107D. Carol because 8 is greater than 7 and greater than 6.	

20.

	· · · · · · · · · · · · · · · · · · ·
	Each of three students wrote an equation.
1.	• Zach wrote $3\frac{2}{6} = \frac{10}{3}$
	• Kate wrote $4\frac{1}{2} = \frac{9}{2}$
	• Brittany wrote $5\frac{1}{4} = \frac{9}{4}$ Which of these students wrote an equation that is true?
	which of these students wrote an equation that is true?
	A. Kate and BrittanyC. Zach and BrittanyB. Zach and KateD. Kate only
	Which number is equivalent to $\frac{5}{8}$?
	A. $\frac{8}{5}$ because flipping the numerator and denominator does not change the number.
2.	B. $1\frac{3}{8}$ because $8 \div 5 = 1$ with a remainder of 3.
	C. $\frac{10}{13}$ because 5+5=10 and 8+5=13.
	D. $\frac{15}{24}$ because 5×3=15 and 8×3=24.
	Maddie needs $\frac{1}{4}$ yard of ribbon for one project and $\frac{3}{8}$ yard for another project. Each
3.	strip below represents 1 yard of ribbon. Which strip is shaded to show the total amount of ribbon that Maddie needs?
	A.
	B
	C.
	D.

	1 1 1
4.	Mark bought $2\frac{1}{3}$ pounds of oranges, $3\frac{1}{4}$ pounds of bananas, and $1\frac{1}{2}$ pounds of
4.	apples. How many pounds of fruit did he buy in all?
5.	Mike is $4\frac{1}{2}$ years older than Phil. Jake is $2\frac{1}{2}$ years younger than Phil. Mike is 11 years old. What is Jake's age?
6.	Mary had $\frac{7}{8}$ of a yard of material. If she used $\frac{2}{3}$ of a yard for a costume, how much material does she have left?
7.	Draw a model to represent the following equation. Write your solution to the equation in the answer blank on the right. $n = 1 - \frac{1}{4}$
8.	Mike painted $\frac{1}{8}$ of the wall and Tyler painted $\frac{3}{4}$ of the same wall. Which model below is best shaded to represent this situation? A. C. B. D. B. D.
9.	Brandon ate $\frac{1}{6}$ of the pizza and Ryan ate $\frac{2}{3}$ of the pizza. What is the difference in the amount they ate?
10.	A restaurant's salad bar used $25\frac{2}{3}$ pounds of lettuce on Saturday and $27\frac{1}{4}$ pounds on Sunday. How many pounds of lettuce did the restaurant use all weekend?

	Test of these statements are exection
	Each of three students wrote an equation.
	• Emily wrote $\frac{11}{2} = 5\frac{1}{2}$
11.	• Brandon wrote $\frac{7}{3} = 3\frac{1}{3}$
	• Ricky wrote $\frac{8}{5} = 5\frac{3}{5}$
	Which of these students wrote an equation that is NOT true?
	A. Emily and RickyC. Brandon and RickyB. Emily and BrandonD. All equations are true
	Which statement is true about the fraction $\frac{9}{16}$?
12.	A. The fraction is less than $\frac{1}{2}$ because $16-9=7$ and 7 is less than half of 16.
12.	B. The fraction is improper because 9 is less than 16.
	C. The fraction can be simplified to $\frac{3}{4}$ because $9 \div 3 = 3$ and $16 \div 4 = 4$.
	D. The fraction is equivalent to $\frac{27}{48}$ because $9 \times 3 = 27$ and $16 \times 3 = 48$.
	Mike painted $\frac{2}{3}$ of his face red and he painted $\frac{1}{4}$ of his face blue. Which model
	below is best shaded to represent this situation?
13.	A. C.
	B. D. D.

Barbequed Lima Beans [makes 10 servings]			
Lima Beans	$1\frac{1}{2}$ pounds	Ketchup	$1\frac{1}{2}$ cups
Water	$\frac{47}{8}$ cups	Tabasco Sauce	13 drops
Chopped Onions	$2\frac{1}{4}$ cups	Dark corn syrup	$\frac{5}{6}$ of a cup
Brown Sugar	$1\frac{3}{8}$ cups	Bacon	$\frac{20}{32}$ of a pound

1.	If Mrs. Fauatea mixes the chopped onions, brown sugar, and ketchup together, how many total cups of ingredients does she have?	
2.	Which of the following is equivalent to the amount of chopped onions in the recipe? A. $\frac{6}{4}$ because $1 \times 2 + 4 = 6$. C. $\frac{9}{4}$ because $4 \times 2 + 1 = 9$. 7	
	B. $\frac{7}{4}$ because $4+2+1=7$. D. $\frac{17}{4}$ because $4^2+1=17$.	
3.	Convert the cups of water to a mixed number.	
4.	Mr. Underwood accidentally pours $5\frac{1}{8}$ cups of ketchup into the recipe.	
	How much extra ketchup did Mr. Underwood add?	
5.	Convert the pounds of bacon into a simplified fraction.	
	Which of the following is an NOT an equivalent fraction to the amount of dark corn syrup listed above?	
6.		
	A. $\frac{10}{12}$ B. $\frac{25}{36}$ C. $\frac{50}{60}$ D. $\frac{35}{42}$	
	Mrs. Atkins loves lima beans so she adds $\frac{5}{8}$ of a pound of extra lima beans to	the recipe.
	Draw a picture below to represent $x = 1\frac{1}{2} + \frac{5}{8}$, the amount of lima beans in her	
7.		
	Each rectangle = 1 pound	-
L		

8.	Dr. Giffin loves to read comic books. She ordered 20 comic books from Amazon.com and each book cost between \$3.75 and \$5.75. Which of the following is a reasonable total cost of the books, not including tax?		
	A. \$60 C. \$120 B. \$95 D. \$155		
9.	 Mrs. Snow bought cupcakes and apple juice for her favorite science class. There were 16 cupcakes per container and 6 apple juices per box. What is the smallest number of packages of each item that Mrs. Snow could have bought and still have the same number of cupcakes and juice? A. 6 cupcakes containers and 16 apple juice boxes B. 4 cupcakes containers and 10 apple juice boxes C. 2 cupcakes containers and 5 apple juice boxes D. 3 cupcakes containers and 8 apple juice boxes 		
10.	Mr. Mangham's has a blank photo album as shown in the picture on the left. He then placed photos in the shaded areas as shown in the picture on the right. Which of the following equations represents the fraction of the page NOT used so far for the photos? A. $1 - \left(\frac{1}{2} + \frac{3}{16}\right) = \frac{5}{16}$ B. $\frac{1}{2} + \frac{3}{16} = \frac{7}{16}$ C. $\left(1 - \frac{1}{2}\right) + \frac{3}{16} = \frac{11}{16}$ D. $1 - \left(\frac{1}{2} + \frac{3}{4}\right) = \frac{2}{6}$		
11.	The table below shows how long it takes each person to make 10 free throws. Larry Bird 15 seconds Magic Johnson 25 seconds Michael Jordan 20 seconds If a buzzer goes off each time a person reaches 10 more free throws, when is the first time all three buzzers go off at the same moment? A. 5 seconds C. 300 seconds B. 100 seconds D. 1500 seconds		

12.	Mrs. Buckmaster has a huge pot which holds 8 gallons. She pours in $2\frac{4}{5}$ gallons of water and $3\frac{1}{2}$ gallons of chicken broth. Does she have enough room to add the one gallon of beef broth she wants to add? A. Yes, because $8 - \left(2\frac{4}{5} + 3\frac{1}{2}\right) = 1\frac{7}{10}$ and $1\frac{7}{10} > 1$. B. No, because $\left(3\frac{1}{2} - 2\frac{4}{5}\right) = \frac{7}{10}$ and $\frac{7}{10} < 1$. C. Yes, because $2\frac{4}{5} + 3\frac{1}{2} = 6\frac{3}{10}$ and $6\frac{3}{10} > 1$.
	D. No, because $2\frac{4}{5} + 3\frac{1}{2} = 6\frac{3}{10}$ and $6\frac{3}{10} < 8$. If Mr. Mangham goes running 18 days during the month of April (30 days), what
13.	fraction of the days in the month did he run? First, write this fraction in simplest form. Second, complete the diagram to model your answer.
14.	What is a common characteristic of the fractions in either Set A or Set B?Set A 2 3 1 2 7 3 1 2 7 8 1 2 6 11 A. All fractions in Set B are greater than one-half.B. All fractions in Set B are less than three-fourths.C. All fractions in Set A are improper.D. All fractions in Set A are less than one-half.
15.	Jonah measured the length of his thumb in centimeters. The length was between 4.5and 4.6 centimeters. Which of the following could have been the length of histhumb?A. 4.06 cmC. 4.51 cm
	B. 4.48 cm D. 4.61 cm

16.	 Mrs. Fauatea bought muffins and drinks for a breakfast meeting. The muffins were sold in packages of 12, and the drinks were sold in packages of 18. What is the smallest number of packages of each item that Mrs. Fauatea could have bought and still have the same number of muffins and drinks? A. 2 packages of muffins and 3 packages of drinks B. 18 packages of muffins and 12 packages of drinks C. 3 packages of muffins and 2 packages of drinks D. 6 packages of muffins and 5 packages of drinks 	
	Newspaper advertisements can be $\frac{1}{4}$ of a page, $\frac{1}{2}$ of a page, or a full page. The	
17.	shaded parts of the model below show the fractions of a page used for two advertisements. Which of the following equations represents the total fraction of the page used for these two advertisements? A. $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ B. $\frac{1}{4} + \frac{1}{2} = \frac{3}{4}$ C. $\frac{1}{2} + \frac{1}{2} = \frac{2}{4}$ D. $\frac{2}{3} + \frac{1}{2} = \frac{3}{5}$	
18.	Three pigs entered a race around a track. Piggly takes 6 minutes to run one lap. Piglet takes 3 minutes to run one lap and it takes Wiggly 5 minutes to run one lap. If all three pigs begin the race at the same time, how many minutes will it take for all three pigs to be at the starting point again?	

19.	A hockey player practices $2\frac{2}{3}$ hours total on Monday and Tuesday and $2\frac{1}{2}$ hours total on Wednesday and Thursday. If hockey players are only allowed to practice 7 hours Monday-Friday, can the hockey player practice for 2 hours on Friday? A. Yes, because $7-2\frac{2}{3}=4\frac{1}{3}$ and $4\frac{1}{3}>2$. B. No, because $\left(7-2\frac{2}{3}\right)-2\frac{1}{2}=1\frac{5}{6}$ and $1\frac{5}{6}<2$. C. Yes, because $2\frac{2}{3}+2\frac{1}{2}=5\frac{1}{6}$ and $5\frac{1}{6}>2$. D. No, because $2\frac{2}{3}-2\frac{1}{2}=\frac{1}{6}$ and $\frac{1}{6}<2$.
20.	If Mrs. Magee cooks her ham for 20 minutes, what fraction of an hour does she cook her ham? First, write this fraction in simplest form. Second, complete the diagram to model your answer.
21.	Julie read $\frac{1}{4}$ of a book on the first day, $\frac{1}{2}$ the second day, and $\frac{1}{8}$ the third day. She finished the book on the fourth day. What part of the book did Julie read on the fourth day?
22.	Mr. Underwood's puppy weighs $7\frac{5}{8}$ pounds and Mrs. Landry's dog weighs $22\frac{3}{16}$ pounds. What is the difference in their weights?

Dete	ermine the better buy by finding the unit rate for each item.	
	Broccoli: 4 lbs for \$6.60 or 6 lbs for \$9.60?	
1.	 A. 4 lbs because the unit rate is \$26.40 per pound. B. 4 lbs because the unit rate is \$1.65 per pound. C. 6 lbs because the unit rate is \$57.60 per pound. D. 6 lbs because the unit rate is \$1.60 per pound. 	
	Dr. Pepper: 20 oz for \$1.50 or 32 oz for \$1.92?	
2.	 A. 20 oz because the unit rate is \$0.075 per ounce. B. 32 oz because the unit rate is \$0.60 per ounce. C. 20 oz because the unit rate is \$0.75 per ounce. D. 32 oz because the unit rate is \$0.06 per ounce. 	
3.	In a first-aid kit the ratio of large bandages to small bandages is 3 to 2. Based on this ratio, how many large bandages are in the kit if there are a total of 80 bandages?	
	A. 32 B. 48 C. 16 D. 40	
4.	A train travels at 850 miles in five hours. What is the average speed in one hour?	
5.	Luke Skywalker has 6 fabulous friends, 14 evil enemies, and 12 awesome animals. Write the ratio of animals to enemies in simplest form.	
6	In band class Mr. Oglesby is able to play 480 notes in 3 minutes. What is the ratio of notes to minutes in simplest form?	
6.	A. 16 to 1C. 3 to 16B. 3 to 480D. 160 to 1	
	Mrs. Fauatea went to the arcade to play Pokémon. She paid \$2 for every 11 token she bought. She spent a total of \$16 on tokens. Which equation can be used to determine t , the number of token Mrs. Fauatea bought?	
7.	A. $\frac{2}{16} = \frac{t}{11}$ C. $\frac{18}{t} = \frac{11}{2}$	
	B. $\frac{2}{11} = \frac{t}{16}$ D. $\frac{11}{2} = \frac{t}{16}$	

0	In math class on Friday there were 18 students sleeping and 8 students gazing at the ceiling. What was the ratio of gazing students to sleeping students?
8.	A. 4 to 9 C. 8 to 10 B. 18 to 8 D. 5 to 4
	Mr. Mangham did many different activities last week.
	 Basketball: burned 11 calories per minute Jogging: burned 9 calories per minute Swimming: burned a total of 900 calories in 3 hours
9.	Mr. Mangham did each activity for 3 hours last week. Based on the information in the list, which statement is true?
	A. He burned 2,700 calories swimming because $900 \times 3 = 2700$.
	B. He burned a total of 4500 calories because $(11 \times 180) + (9 \times 180) + 900 = 4500$.
	C. He burned 1,620 calories per hour while jogging because $9 \times 180 = 1620$.
	D. He burned a total of 920 calories because $11+9+900=920$.
	At school on Friday, 4 out of 5 students were wearing beards. There were 600 students at school on Friday. How many of the students were wearing beards?
	A. 599, because $600 - (5 - 4) = 599$.
10.	B. 480, because $\frac{4}{5} = \frac{480}{600}$.
	C. 30, because $600 \div (5 \times 4) = 30$.
	D. 750, because $\frac{4}{5} = \frac{600}{750}$.
11.	A worker at Domino's pizza uses 200 tomatoes to make 50 pizzas. At this rate, how many tomatoes will the worker use to make 350 pizzas?
	Mr. Silvia is making a sauce for a chicken dish. The list below shows the amount of each ingredient he needs in order to make 4 servings of the sauce.
	2 tablespoons black pepper, 1 cup peanut butter, 3 tablespoons of vinegar, 2 tablespoons of soy sauce, 1 cup of water
12.	Based on this information, which statement is true?
	A. For 16 servings, he would need to use 12 tablespoons of vinegar.B. For 20 servings, he would need to use 7 tablespoons of soy sauce.C. For 2 servings, he would need to use 4 tablespoons of black pepper.D. For 12 servings, he would need to use 9 cups of peanut butter.

13.	To make lemonade, you mix 2 cups of lemon juice to 7 cups of water. How many cups of lemon juice do you need for 28 cups of water?		
14.	A plane travels at 2,220 miles in four hours. What is the average speed in one hour?		
15.	Trent has four pennies, six nickels, and eight dimes. Write the ratio of nickels to dimes in simplest form.		
	Ms. Landry decides to give her class candyAGAIN. She has 25 students and 125 Hershey Kisses. What is the ratio of Hershey Kisses to students?		
16.	A. 25 to 1 C. 5 to 1 B. 1 to 5 D. 1 to 25		
	Four out of every nine band students will practice over the summer. If there are 81 band students at school, which proportion can be used to find s, the number of students who will practice over the summer?		
17.	A. $\frac{(9-4)}{9} = \frac{s}{81}$ C. $\frac{9}{81} = \frac{s}{4}$		
	B. $\frac{4}{s} = \frac{81}{9}$ D. $\frac{4}{9} = \frac{s}{81}$		
18.	In math class on Friday there were 56 questions asked by a total of 8 students. What is the ratio of math questions to students?		
10.	A. 8 to 1 C. 7 to 1 B. 1 to 8 D. 8 to 56		
19.	At Albertson's, apples are 5 for \$0.70. At Tom Thumb, apples are 2 for \$0.26. At Kroger, apples are 4 for \$0.60. Which store offers a better unit rate for apples?		
20.	The ratio of Duke fans to Texas A&M fans is about 7 to 3. If there were 15 Texas A&M fans, how many Duke fans would there be?		
21.	A worker at Domino's pizza uses 20 tomatoes to make 4 pizzas. At this rate, how many tomatoes will the worker use to make 350 pizzas?		
22	Every day a zoo keeper feeds the 4 gorillas a total of 240 lb of food. At this rate how many pounds of food would the keeper feed 6 gorillas?		
22.	A. 60 lb C. 360 lb B. 1440 lb D. 40 lb		

- 1. Mr. Sargent has 5 music classes with 32 students in each class. Today, 4 students were absent from his class and all his other classes were full. Which expression could be used to find the total number of students in Mr. Sargent's classes today?
 - A. $(32 \times 5) 4$ C. $(32 4) \times 5$
 - B. $(32 \times 4) 5$ D. $32 \div (5 4)$
- 2. What is the value of this expression?

$$3+5 \times (8-3)$$

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

3. Angle has a bag that contained 14 oranges. She put 3 of the oranges in her brother's lunch box. She put 2 times as many oranges in the refrigerator as she put in her brother's lunch box. She used the rest of the oranges to make orange juice. Based on the expression below, how many oranges did Angle use to make orange juice?

A. 8 C. 1 B. 5 D. 9

4. Ryan is in charge of ordering pizza for 112 campers. Each camper will get 2 slices. One pizza contains 8 slices. How many pizzas does Ryan need to order?

A.	7 pizzas	C.	16 pizzas
B.	14 pizzas	D.	28 pizzas

- 5. Anil has 18 dollars and wants to buy some desserts from the bakery. Jelly doughnuts cost \$2 each, éclairs cost \$3 each, milkshakes cost \$4 each, and chocolate cakes cost \$6 each. Anil wants to spend all his money on one kind of dessert. Which kind of dessert should Anil NOT buy?
 - A. Éclairs C. Jelly doughnuts
 - B. Milkshakes D. Chocolate cakes
- 6. What is the prime factorization of 288?

A.	$2^4 \times 3^2$	C.	$2^6 \times 3^2$
B.	$2^{5} \times 3^{2}$	D.	$2^{4} \times 3^{3}$

7. At a swimming pool, Hector swam between 9 and 21 laps each day. Each lap is 26.8 m long. Hector swam at this pool 10 days. Which of the following is a reasonable estimate of the total number of meters Hector swam?

A.	1,000 m	C.	4,500 m
B.	9,000 m	D.	1,800 m

8. Andrew has \$5 less than 3 times as much money as Bianca. He has \$74. If *d* represents Bianca's money, which equation can be used to find the amount of money she has?

B. 3d-5=74 D. 5d-3=74

9. Karla is using wood to build chairs for her dining room. The table below shows *n*, the number of pieces of wood she used to build *c*, different numbers of chairs.

Number of Chairs,	Wood pieces,
С	п
2	12
4	24
6	36
8	48

If Karla keeps following this pattern, which of the following expressions can she use to find n, the number of nails it will take to build c chairs?

- A. *c*-12 C. *c*+2
- B. *c*+6 D. 6*c*
- 10. The table shows Andy's age and Mandy's age over a fifteen year time period. Which expression best represents Mandy's age in terms of Andy's age?

AGES		
Andy's Age, x	Mandy's Age,	
(years)	y (years)	
7	23	
12	28	
17	33	
22	38	

- A. *x*+5 C. *x*-5
- B. *x*+16 D. 3*x*
- 11. Which number is equivalent to $4\frac{2}{3}$?
 - A. $\frac{11}{3}$ C. $\frac{14}{3}$
 - B. $\frac{12}{3}$ D. $\frac{10}{4}$

12. Debra got 5 out of 6 questions correct on her quiz. Which number is NOT equivalent to $\frac{5}{6}$?

A.
$$\frac{10}{12}$$
 C. $\frac{50}{60}$

B.
$$\frac{15}{24}$$
 D. $\frac{30}{36}$

13. Oscar had \$135.65 saved in his piggy bank. Last week he earned another \$62.43. He then went to the movies and spent \$18.74. How much money did Oscar have after the movies?

A.	\$198.08	C.	\$73.22
B.	\$179.34	D.	\$116.91

14. Mr. Smith mailed 3 packages. The greatest amount he paid to mail one of these packages was \$3.60. The least amount he paid to mail one of these packages was \$1.70. What could be the total amount Mr. Smith paid to mail the 3 packages?

A.	\$8.30	C.	\$5.10
B.	\$11.50	D.	\$10.80

15. Cyrus worked after school for six months to earn money for his summer trip. He saved a total of \$1,500. His round-trip airfare on the trip was \$240. On his trip he spent \$36 per day. On what day of his trip did he use the last of his summer savings?

Fall Semester Review	Name:	
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1. Fred and his family went to the zoo. Fred started the day with \$100. He bought 2 adult tickets for \$15 each and 3 kid tickets for \$8 each. He then spent half of his remaining money at the zoo gift shop. The expression below can be used to determine how much money Fred had at the end of the day.

 $(100 - 2 \times 15 - 3 \times 8) \div 2$

How much money did Fred have at the end of the day?

A.	\$46	C.	\$47
B.	\$23	D.	\$92

A sixth grade class of 295 students is having an end of the year laser tag party. The party will cost \$8.95 per student, but since so many students are attending the laser tag company is giving the group a \$400 discount. Estimate the total cost of the party.

A.	\$3,100	C.	\$2,700
B.	\$2,000	D.	\$2,300

3. Yoda spends 48 weeks a year training Luke. If he trains Luke 21 hours a week, about how much time would be spent training Luke in two years?

A.	2,000 hours	C.	500 hours
B.	1,000 hours	D.	200 hours

4. In the expression below which operation would be performed first?

$$60 \div 3 \bullet 10 + 2$$

- A. Adding because it should be performed before dividing and multiplying.
- B. Multiplying because it should always be performed before dividing and adding.
- C. Dividing because multiplying and dividing are solved left to right in an expression.
- D. Adding because the operation on the right should always be completed first.

5. Laura is listing her age and her mom's age over the past four years. The table below shows l, Laura's age and m, her mom's age.

Laura's age, <i>l</i>	Her mom's age, <i>m</i>
7	35
8	36
9	37
10	38

If Laura continues the pattern, which of the following expressions can she use to find m, her mom's age when Laura is l years old?

A.
$$\frac{l}{5}$$
 C. $5 \bullet l$

- B. l+7 D. l+28
- 6. Fifty sixth graders decided to raise money to help local charities. Each student brought in \$5. The group then gave \$35 to one charity and \$45 to another charity. The expression below represents the amount of money the sixth graders had remaining.

$$50 \times 5 - (35 + 45)$$

How many money did the students have remaining?

- A. \$260 C. \$180
- B. \$215 D. \$170
- 7. A local water tank holds 50,000 gallons of water. If the tank starts out completely full and the local community uses 250 gallons of water each minute, which equation below can be used to find *w*, the amount of water remaining after *m* minutes?
 - A. w = 250m + 50,000 C. w = 50,000 250m
 - B. w = 250m 50,000 D. w = 50,000 + 250m

8. The table below shows how far a car that is going 30 miles per hour would travel in a given number of minutes.

Minutes, <i>m</i>	Distance, d (miles)
90	45
60	30
30	15
20	10

Which expression best represents the distance d the car would travel in m minutes?

A.	$\frac{m}{2}$	C.	2 <i>m</i>
B.	30 <i>m</i>	D.	$\frac{m}{30}$

9. You and your best friend got out to eat. You buy 2 hamburgers at \$3.95 each, 2 french fries at \$1.65 each and a large chocolate milkshake to share for \$2.60. If you hand the server a \$20 bill, how much change will you receive?

A.	\$6.20	C.	\$8.80
B.	\$7.90	D.	\$13.80

10. Which expression is the prime factorization of 216?

A.	$2^2 \times 3^4$	C.	$2^3 \times 3^3$
B.	$2^2 \times 3^2$	D.	$2^4 \times 3^2$

11. Which expression shows the prime factorization of 320?

- A. 32×10 C. $2^6 \times 3$
- B. $2^5 \times 5$ D. $2^6 \times 5$

12. Ten out of twenty-five students say their math teacher does not give enough homework. The fraction of students saying their language arts teacher does not give enough homework is greater than math. Which fraction below could represent the fraction of students saying their language arts teacher does not give enough homework?

A.	$\frac{1}{3}$	C.	$\frac{3}{8}$
B.	$\frac{4}{7}$	D.	$\frac{4}{18}$

13. The numbers in each set shown below have a common characteristic.

Set A	Set B
18 24	12 28
60 84	32 46

Which statement best describes a common characteristic of Set A or Set B?

- A. Each number in Set B is a multiple of 4.
- B. Each number in Set A is a multiple of 9.
- C. Each number in Set A is a multiple of 6.
- D. Each number in Set B is a multiple of 320.

14. Which of the following is not a common factor of 36 and 48?

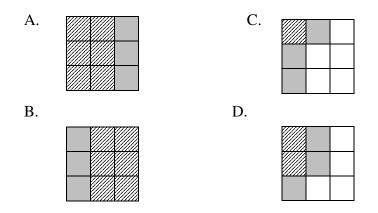
A.	9	C.	6

B. 12 D. 4

15. Sarah eats squash every 4 days and she eats lima beans every 10 days. If she just ate squash and lima beans yesterday, how many times will she eat them together over the next 50 days?

- A. 12 C. 2
- B. 5 D. 1

16. Katniss ate $\frac{2}{9}$ of an apple and Tris ate $\frac{1}{3}$ of an apple. Which model below best represents the expression $\frac{2}{9} + \frac{1}{3}$?



17. The price of napkins and the number of napkins is listed in the table below.

Number of Napkins (n)	Price of Napkins (p), in cents
200	140
300	210
400	280
500	350
600	420

Let *p* represent the price of the napkins and *n* the number of napkins. Which equation shows the relationship between the price of napkins and number of napkins?

A. $p = 7 \bullet n$ C. $p = 0.7 \bullet n$

B.
$$n = p + 70$$
 D. $p = n + 100$

18. Cookie Monster had \$25 to buy cookies. He spent \$5.75 on chocolate chip cookies and \$6.30 on peanut butter cookies. If Elmo steals \$5.15 from Cookie Monster how much money does Cookie Monster have left?

A. \$12.05 C. \$12.95

B. \$17.20 D. \$7.80

19. Hermione is measuring the lengths of a variety of wizard wands. Which listing below shows wands that are less than 8.4 inches listed in order from greatest to least?

A. 8.62, 8.48, 8.26, 8.15
B. 8.38, 8.12, 7.99, 7.65
C. 7.13, 7.46, 7.78, 8.13
D. 8.17, 8.09, 8.9, 7.82

20. Carlee bought 2 books each month for one entire year. The least expensive was \$9.75 and the most expensive was \$11.25. Based on this information, which of the following is true?

A. Carlee spent more than \$25 every month during the year on books.

B. Carlee spent less than \$200 to buy all her books during the year.

C. Carlee paid less than \$12.00 every month during the year on books.

D. Carlee spent more than \$230 to buy all her books during the year.

21. Evaluate $80 - (12 + 12) + 15 \cdot 2$.

A. 26 C. 142

B. 86 D. 110

22. The table shows the relationship between the height of a tree in yards and the height of the tree in feet.

Tree Heights

Height (yd)	1	3	5	7	у
Height (ft)	3	9	15	21	?

Which expression can be used to find the height of a tree in feet that has a height of y yards?

A.	3у	C.	<i>y</i> +2
B.	$\frac{y}{3}$	D.	<i>y</i> +6

23. The table shows the number of students in the EIS school band.

EIS School Band

Students	Number
Girls	56
Boys	84

The director plans to arrange the students into equal rows. Only girls or boys will be in each row. What is the greatest number of students that can be in each row?

A.	2		C.	14

B. 7 D. 28

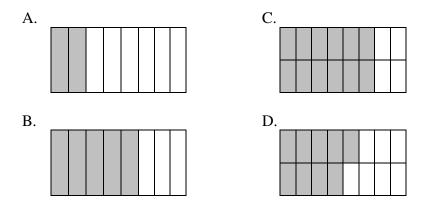
24. Nemo is asking some of his fish friends to line up according to length. Which list shows the length, in inches, of the fish from greatest to least?

A. $4\frac{1}{2}, 4\frac{5}{8}, 4\frac{3}{4}, 4\frac{1}{5}$	C. $4\frac{3}{4}, 4\frac{5}{8}, 4\frac{1}{2}, 4\frac{1}{5}$
B. $4\frac{1}{2}, 4\frac{1}{5}, 4\frac{5}{8}, 4\frac{3}{4}$	D. $4\frac{1}{5}, 4\frac{1}{2}, 4\frac{5}{8}, 4\frac{3}{4}$

25. Rachel has 20 gallons of water to use over 3 days on Survivor Island. She uses $4\frac{1}{3}$ gallons on Day 1 and $8\frac{5}{6}$ gallons on Day 2. If she needs to use 7 gallons on Day 3, does she have enough left?

A. No, because
$$8\frac{5}{6} + 4\frac{1}{3} > 7$$
.
B. No, because $20 - \left(4\frac{1}{3} + 8\frac{5}{6}\right) < 7$
C. Yes, because $20 - 8\frac{5}{6} > 7 - 4\frac{1}{3}$
D. Yes, because $20 - 4\frac{1}{3} > 7$

26. Donkey was making waffles for breakfast. He gave Shrek $\frac{7}{8}$ of a waffle. Shrek ate $\frac{5}{16}$ of a waffle before Puss in Boots stole the rest. Which model can be used to represent the fraction of a waffle Puss in Boots stole?



27. Woody was counting the number of items in the bedroom. He counted 12 dolls and 18 games. The next day 8 more dolls arrived. What is the new ratio of dolls to games?

B. 10:9 D. 6:13

28. On a recent trip to Australia there were 2 leaders for every 24 students. There were 5 leaders on the trip. Which proportion can be used to find the number of students on the trip?

A.	$\frac{2}{24} = \frac{5}{x}$	C. $\frac{2}{5} = \frac{x}{24}$
B.	$\frac{2}{24} = \frac{x}{5}$	D. $\frac{2}{x} = \frac{5}{24}$

29. Sally had $5\frac{1}{3}$ pounds of candy. Suzie had $2\frac{1}{6}$ pounds less than Sally. Sarah had $3\frac{1}{2}$ pounds more than Suzie. How many pounds of candy did Sarah have?

A. $3\frac{1}{6}$ pounds	C. $7\frac{1}{2}$ pounds
B. $5\frac{2}{3}$ pounds	D. $6\frac{2}{3}$ pounds

30. The following table shows how much homework a student has in sixth grade.

Homework for a Sixth Grader			
Language Arts 18 minutes per night			
Math	120 minutes per five nights		
Science 24 minutes per two nights			

Which of the following rates is equivalent to the information provided in the table?

- A. 100 minutes of language arts homework per five nights.
- B. 20 minutes of math homework per night.
- C. 36 minutes of science homework per three nights.
- D. A total of 42 minutes of homework per night.

31. Movie theater companies estimate that for every 8 people in attendance they will sell a total of 96 ounces of soda. If the theater sold 156 ounces of soda to one group of teenagers, how many teenagers were in the group?

- A. 5 teenagers C. 13 teenagers
- B. 12 teenagers D. 20 teenagers
- 32. Scooby is practicing his multiplication facts. Before eating a Scooby Snack he answers 256 math problems. If Scooby can solve 30 math problems per minute, which of the following statements is a reasonable conclusion?
 - A. He will have solved more than half of the problems after 4 minutes.
 - B. He will have solved more than 70 problems after 2 minutes.
 - C. He will have solved all the problems in less than 9 minutes.
 - D. He will have solved less than 200 problems after 7 minutes.
- 33. In a recent survey, 7 out of 12 students say that their current math teacher is their favorite teacher of all-time. Based on this information, if 480 students are surveyed how many would choose their current math teacher as their all-time favorite teacher?
 - A. 280 students C. 396 students
 - B. 40 students D. 200 students

34. At lunch last Thursday 3 out of every 8 students chose a grilled cheese sandwich. There were 600 students at school on Thursday. How many of the students did not choose a grilled cheese sandwich?

A. 225 because
$$\frac{3}{8} = \frac{225}{600}$$

B. 1600 because $\frac{8}{3} = \frac{1600}{600}$

- C. 525 because $600 (600 \div 8) = 525$
- D. 375 because $\frac{3}{8} = \frac{225}{600}$ and 600 225 = 375

- 35. A recipe to make 8 servings of cake calls for many ingredients, including:
 - 4 cups flour
 - 2 teaspoons vanilla
 - 1 cup water

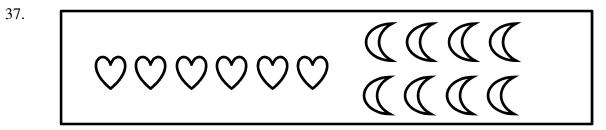
Based on this information, which statement is true?

- A. For 4 servings you would need 8 cups of flour
- B. For 32 servings you would need 8 teaspoons of vanilla
- C. For 40 servings you would need 8 cups of water
- D. For 16 servings you would need a total of 9 cups of flour and water

36. At a recent Black Friday sale video games were on sale at 5 for \$70. In one hour the store sold 130 video games. Which equation can be used to determine x, the dollar amount of video games sold in the hour?

A.
$$x = 130 - (70 + 5)$$
 C. $\frac{5}{70} = \frac{130}{x}$

B.
$$\frac{5}{70} = \frac{x}{130}$$
 D. $x = (130 \bullet 5) - 70$



In the picture above, what is the ratio of moons to hearts?

- A. 6:8 C. 4:3
- B. 8:14 D. 3:7

38. What is the ratio of shaded small squares to the total small squares?

_				

- A. 5:2 C. 2:7
- B. 5:7 D. 2:5
- 39. A basketball team made 35 free throws in 10 games. At this rate, how many games would it take them to make 49 free throws?
- 40. Phil planted a money tree in his backyard. Originally the tree was 10.7 feet tall. It grew 1.2 feet each year for the first four years. How tall was the money tree at the end of the fourth year?

Name:

Show all work on a separate sheet of paper.

In the box below draw a picture or list the rules to help you with converting					
Fractions-Decimals-Percents					

1.	DIS math students were checking their work carefully on each math problem they completed. Each student completed 18 problems in 30 minutes. If each student continues at this rate, how many problems could a student complete in 4 hours?	
2.	In a recent survey 78% of football fans votes Alabama as the best NCAA football team of the last 10 years. Convert 78% to a fraction in simplest form.	
3.	In another survey $\frac{2}{5}$ of students voted soccer as their favorite sport and 0.15 of students voted baseball/softball as their favorite sport. What percentage of students voted for some other sport?	
4.	 Mr. Mangham finally learned how to read. His first book is 56 pages long and right now he can read at a rate of 6 pages per day. Based on this information, which of the following statements is a reasonable conclusion? A. He will have read more than 50% of the book after 4 days. B. He will have read less than ¹/₄ of the book after 3 days. C. He will have 14 pages left to read after day 7. 	
	D. He will have read exactly 36 pages in the first 8 days.	

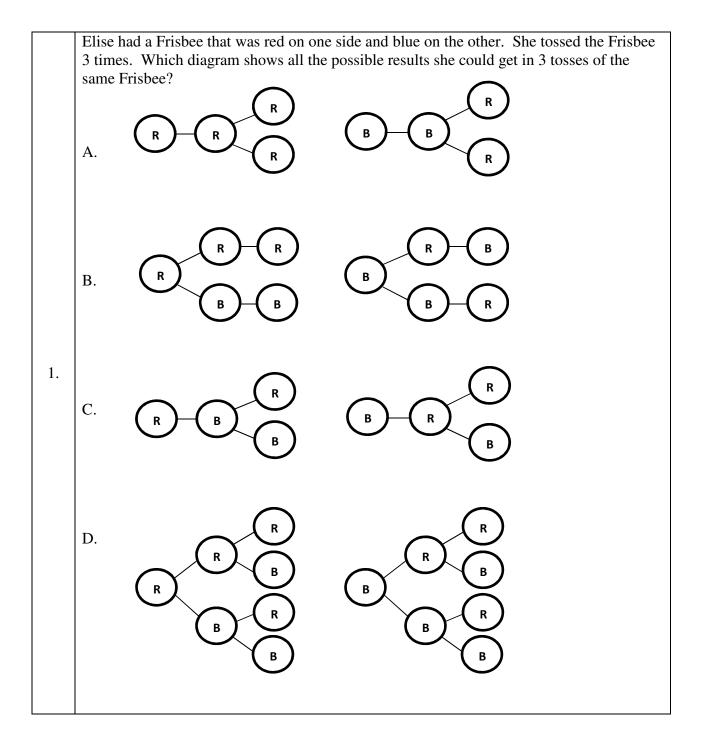
5.	It was third period in the secret teacher room at DIS. There were 12 teachers sleeping on the sofas and 48 teachers watching Dora the Explorer on television. Write a simplified ratio that compares the sleeping teachers to the TV watching teachers. What percent of the teachers are watching TV?	Ratio Percent watching TV	
6.	<th between="" column="" form<="" formation="" of="" td="" the=""><td></td></th>	<td></td>	
7.	The numbers in each set shown below have a common characteristic.Set SSet T 0.62 $\frac{55}{100}$ $\frac{4}{11}$ 67% 0.18 $\frac{1}{10}$ $\frac{5}{100}$ 15% Which statement best describes a common characteristic of the numbers S or Set T?A. Each number in Set T is less than 20%.B. Each number in Set S is less than 0.65.C. Each number in Set T is greater than 0.1.		
8.	D. Each number in Set S is greater than $\frac{13}{20}$. A black garden ant is $\frac{17}{25}$ cm long. What is an equivalent length of this garden ant in centimeters? A. 0.64 cm B. $1\frac{8}{25}$ cm C. $\frac{5}{8}$ cm D. Not here 70.8% of the Earth's surface is covered in water. What decimal is equiv 70.8%?		

	In a survey of 1000 per season. The results are	- ·		ne their favorite	
	Winter	Spring	e Season Summer	Fall	
	6%	35%	31%	28%	
	What fraction of people	e did not choose	winter?		
10.	A. $\frac{3}{50}$, because	$\frac{3}{50} = \frac{6}{100}$			
	B. $\frac{7}{25}$, because	$e \frac{7}{25} = \frac{28}{100}$			
	C. $\frac{47}{50}$, because	se $100 - 6 = 94$ ar	and $\frac{94}{100} = \frac{47}{50}$		
	D. $\frac{2}{5}$, because	$10 - 6 = 4$ and $\frac{1}{1}$	$\frac{4}{10} = \frac{2}{5}$		
11.	Davis' group was responsible for painting windows on the set of the school play. The group painted 24 windows in 90 minutes. If they continue painting at the rate, how many windows would they paint in 6 hours?				
12.	Mr. Mangham conducted a survey of 400 students asking if they liked the color blue or orange more. 72% liked the color blue more. What percentage liked the color orange more?				
13.	Since 18 out of every 25 students liked blue more, how many total students chose the color blue in the question above?				
	Jessica is going to read a 219-page book. She reads at a rate of 20 pages per day. Based on this information, which of the following statements is a reasonable conclusion?				
14.	A. She will have read less than $\frac{1}{2}$ of the book after 5 days.				
	B. She will ha	ve read more that	n $\frac{1}{3}$ of the book aft	ter 3 days.	
	C. She will ha	ve read more that	n 138 pages after 4	days.	
	D. She will ha	ve read fewer that	nn 110 pages after 6	5 days.	

15.	Mrs. Atkins loves to collect Beanie Babies. She has collected 40 Beanie Babies in 6 years. How many years will it take her to collect 100 Beanie Babies? Write a proportion and then solve the problem. Label.	Proportion Answer	
16.	There were 15 fish alive on the beach and 45 dead fish on the beach in Nicaragua. Write a simplified ratio that compares the alive fish to the dead fish. What percent of the fish are alive out of the total number of fish on the beach?	Ratio Percent alive	
17.	Which pair of numbers is equivalent?A. 0.5 and $\frac{1}{5}$ C. 0.06 and $\frac{6}{10}$ B. $\frac{7}{10}$ and 0.07D. 0.08 and $\frac{8}{100}$		
18.	The numbers in each set shown below have a common characteristic.Set SSet S $0.8 \frac{60}{100} \frac{5}{9} 0.57$ $0.4 \frac{20}{100} \frac{4}{9} 0.04$ Which statement best describes a common characteristic of the numbers in Set		

19.	A king snake is $\frac{31}{50}$ m long. What is an equivalent length of this king snake in meters?				
	A. 0.31 m	B. $3\frac{1}{50}$ m	C. 0.062 m	D. Not here	
	The table below shows	s the number of te	eth of each type in	Nate's mouth.	
		Nate's	Teeth		
	Incisor	Canine	Premolar	Molar	
	8	4	8	12	
What percentage of teeth in Nate's mouth are incisors?					
20.	A. 25%, becau	use $\frac{8}{32} = \frac{1}{4}$ and $\frac{1}{4}$	$=\frac{25}{100}$		
	B. 8%, because $\frac{8}{100} = 8\%$				
C. 24%, because $32 - 8 = 24$					
D. 76%, because $\frac{12+8+4}{100} = \frac{24}{100}$ and $\frac{100}{100} - \frac{24}{100} = \frac{76}{100}$					

Show all work on a separate sheet of paper.



2.	hair, 4 have r	tudents have brown ack hair. If Mr. estion, what is the			
	A. $\frac{1}{2}$	B. $\frac{1}{6}$	C. $\frac{1}{8}$ D.	$\frac{1}{24}$	
		ifferent ways can thes be used first?	e 4 objects be arrang	ged in a row if the	
3.	($\supset \triangle$		3	
4.	 4. Tim plays basketball for the Dragons. In the past 12 games, Tim has scored 24 or more points 4 times. If this trend continues, what is the probability that Tim will score 24 or more points in tonight's game? 				
	A. $\frac{1}{2}$	$\frac{1}{4}$ B. $\frac{1}{12}$	C. $\frac{1}{8}$ D.	$\frac{1}{3}$	
	The table bel	ow shows the ice crea	am preferences of 40	people.	
		Favorit	te Ice Cream		
		Color	Number of Students		
		Cookie and Cream	12		
5.		Chocolate Chip	6		
		Vanilla	9		
		Strawberry	8	4	
		Butter Pecan	5		
	What is the probability that one student selected at random prefers chocolate chip ice cream?				
6.	In the problem above, how many students would you expect to choose strawberry if you asked 100 students?				

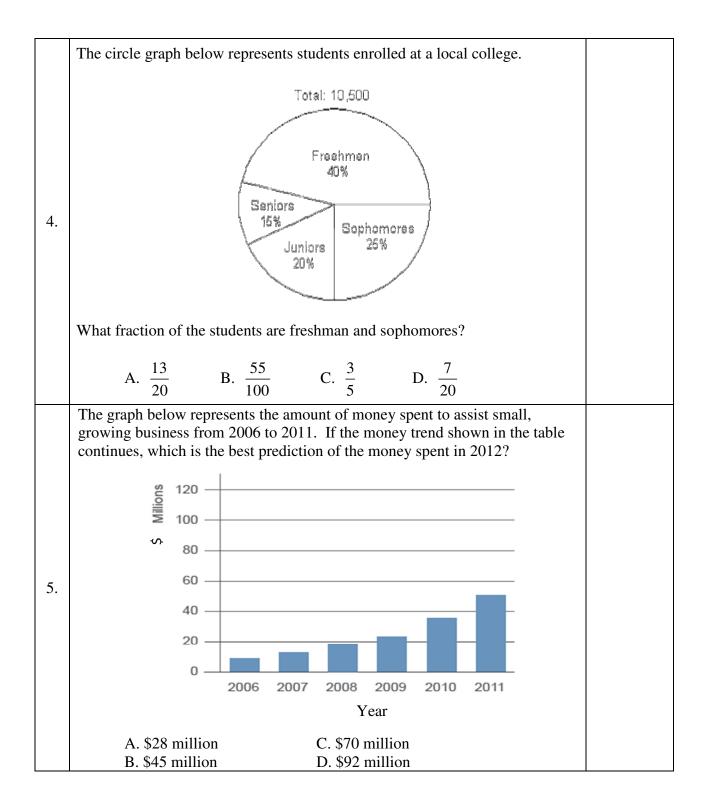
	k has eight different colors of socks he can wear: white, black, gray, purple, bro n, and blue. Use this information for the questions below. (Write answers in sir	•				
7.	If he selects a color of sock at random, what is the probability it will be black or gray?					
8.	If he selects a sock at random, what is the probability it will be a color with the letter E somewhere in it?					
9.	Use a tree diagram to find how many combinations can be made from Max's eight colored socks and two different pairs of shoes: tennis or dress shoes.					
10.	shoes. A snow cone stand sells small, medium, and large snow cones. You can choose from grape, strawberry, or orange flavor. Make a tree diagram and list all of the different cones you can choose from in the space below.					
	Brian has a 5 digit combination lock on his bicycle. He knows that the first four numbers are as listed below.					
11.	6 3 2 1					
11.	The digits may be repeated. How many numbers must Brian try before he is sure to open the lock on his bicycle?					
	A. 10 B. 12 C. 336 D. 1000					
12.	Don tossed a coin 100 times and got heads 42 times. Based on Don's experiment, what is the experimental probability of heads? Please write your answer as a fraction in simplest form.					
13.	Using the information in the problem above, what is the experimental probability of tails? Please write your answer as a fraction in simplest form.					

		Shirt Color	Pants	
		White	Jeans	
		Red	Khakis	
		Blue		
	ch of the following d and one pair of pants		of the possible outc	omes if Wayne pick
	White	Red	Blue]
A.	$\square \square$	\bigwedge	\wedge	
	Jeans Khakis	Jeans Khakis	Jeans Khakis	
B.	White	Red	Blue]
2.		\bigwedge	\bigwedge	
	Jeans Khakis	Shirts Pants	Jeans Khakis	
C.	White	Red	Blue]
0.				
	Jeans	Khakis	Jeans	
D.	White	Blue	Khakis]
	Red	Jeans	White	

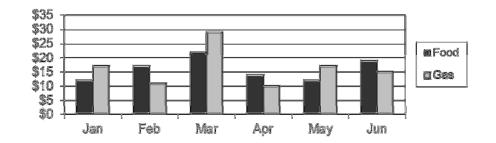
15.	straws, 35 green st	raws, 20 yellow	king straws. The box straws, and 15 purp nat is the probability	le straws. If he	
	A. $\frac{1}{5}$	B. $\frac{4}{5}$	C. $\frac{3}{10}$ D.	$\frac{3}{7}$	
16.		ellow skittles, a	ag. If there are 10 re nd 4 blue skittles wh le to eat?		
	A. $\frac{1}{2}$	B. $\frac{3}{8}$	C. $\frac{1}{8}$ D.	$\frac{1}{5}$	
	Ryan surveyed the 30 members of his class sixth grade class to find out their favorite color. He listed this information in the form of a table, as shown here.				
	Favorite Colors				
		Color	Number of Students		
		Blue	7		
17.		Green	4		
		Yellow	3		
		Red	10		
		Orange	6		
	Based on this infor choosing red as the		the probability of a r r?	andom student	

18.	vanilla, chocolate, or strav	mall, medium, and large ice c wberry ice cream. Make a tre noose from in the space below	e diagram and list all	
19.	 She can choose sea She can choose a comparison of the list below shows some cover, and 1 color. 2 doors, leather, silver 2 doors, fabric, silver 4 doors, leather, silver 4 doors, fabric, silver 	car with 2 doors or 4 doors. at covers made of leather, fab- car color of silver, black, or w e of the possible outcomes of 2 doors, leather, black 2 doors, fabric, black 4 doors, leather, black 4 doors, fabric, black w all the other possible outcor	hite. 1 number of doors, 1 2 doors, leather, wh 2 doors, fabric, whit 4 doors, fabric, whit 4 doors, fabric, whit	ite ite
20.	1	eon tetras, 4 swordtails, and 6 h caught at random from the		

	Dr. Giffin kept track of the fantasy football points scored by Robert Griffin III during his first eight games of the season:
	19, 26, 9, 16, 0, 9, 27, 8
1.	RGIII scored a total of 114 points. Which statement about Dr. Giffin's data is NOT true?
	A. The median score for RG III is greater than 10.B. The mode of the scores for RGIII 9.C. The mean score for RGIII less than 15.D. The range of scores for RGIII is 19.
	Mrs. Atkins loves bugs. She plotted the length (in centimeters) of different bugs she found crawling on the ground.
2.	$0 \frac{1}{12} \frac{2}{12} \frac{3}{12} \frac{4}{12} \frac{5}{12} \frac{6}{12} \frac{7}{12} \frac{8}{12} \frac{9}{12} \frac{10}{12} \frac{11}{12} 1$
	What is the range of the lengths of the bugs, in centimeters?
	Mr. Wright loved having Matt Forte on his fantasy football team. These were Matt Forte's first seven scoring games: 19, 24, 20, 22, 16, 16, 30
3.	What is the mean score for Matt Forte during these 7 games?
	A. 14 B. 16 C. 20 D. 21

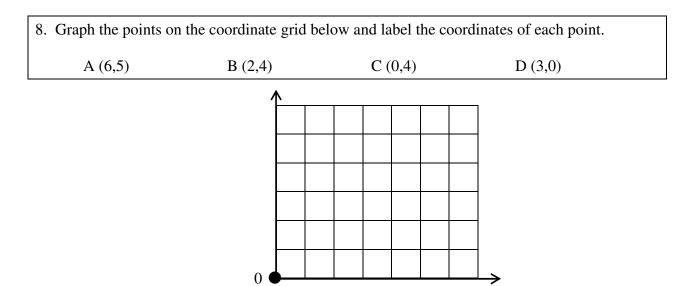


Use the graph below to answer the following questions.

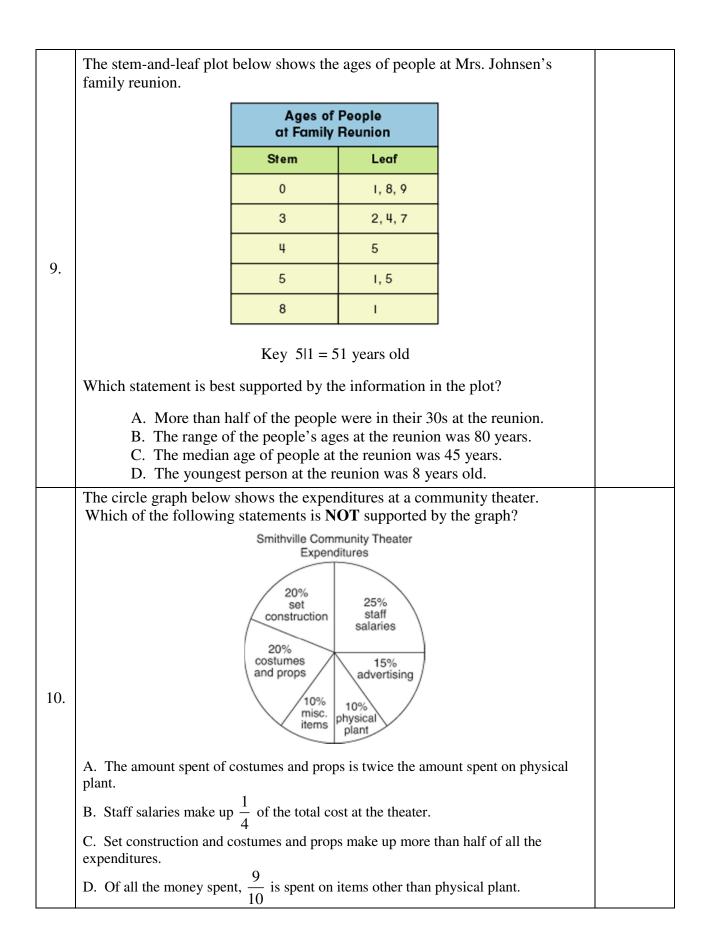


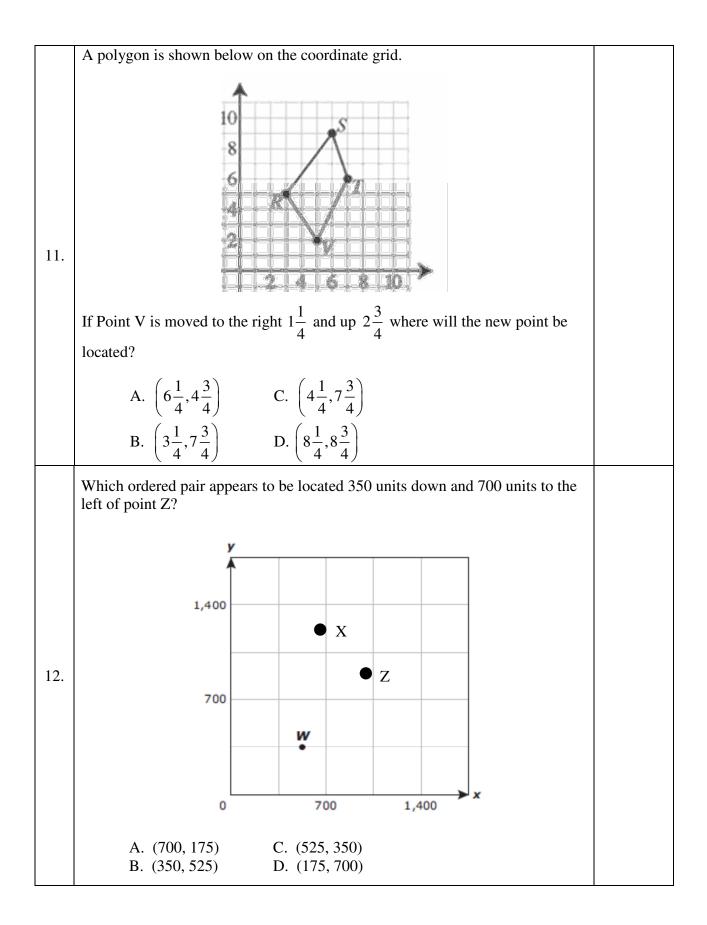
Money Spent Each Month

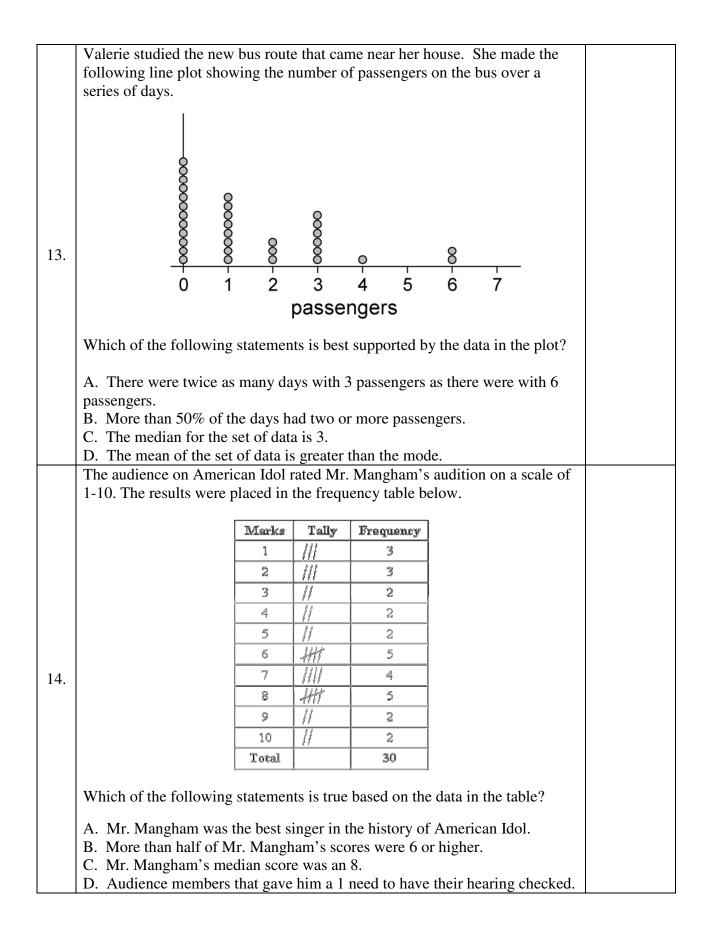
6.	If the final six months of the year were similar to the first six, how much money was spent on food for the entire year?	
	A. \$96 B. \$122 C. \$154 D. \$192	
7.	 Which statement is best supported by these data? A. In January, twice as much money was spent of gas compared to food. B. More money is spent each month on food than gas. C. The largest decrease in gas money was from March to April. D. The median cost month for food was in June. 	

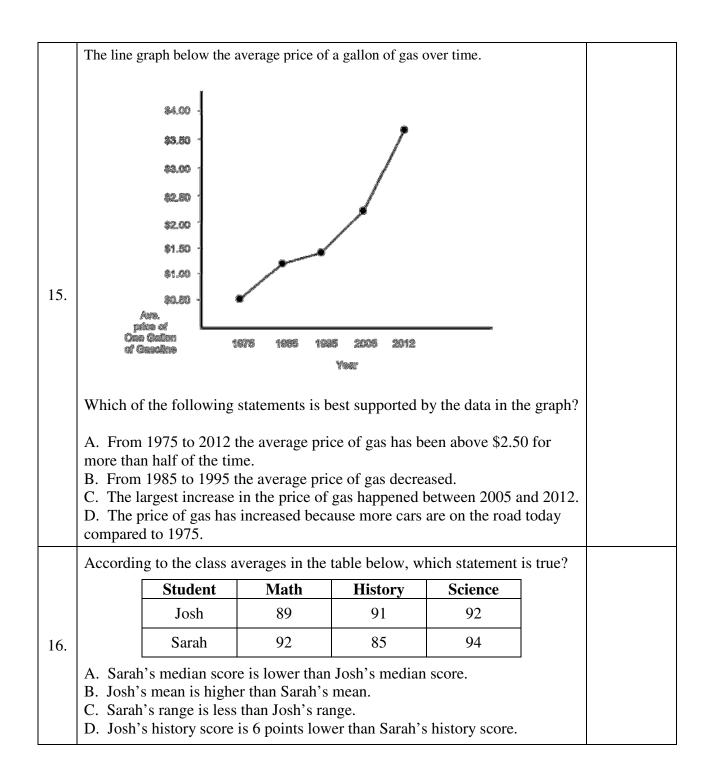


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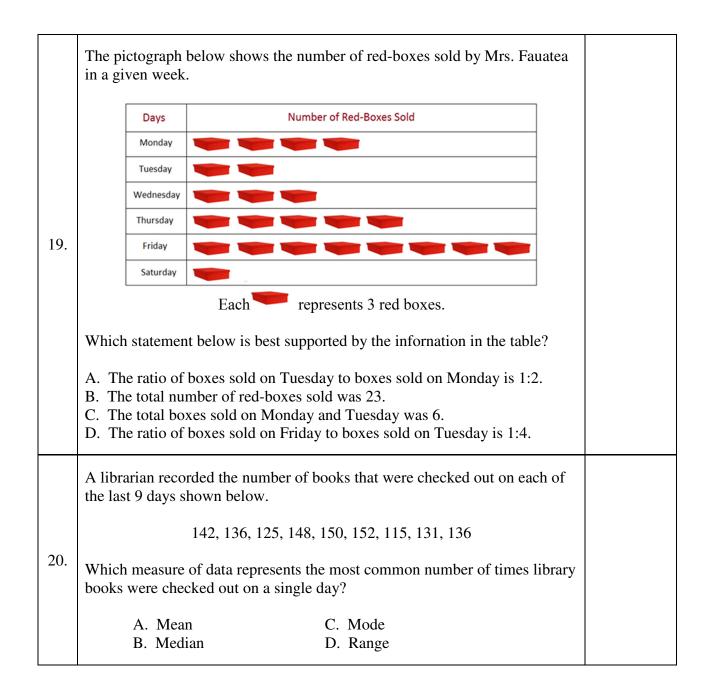


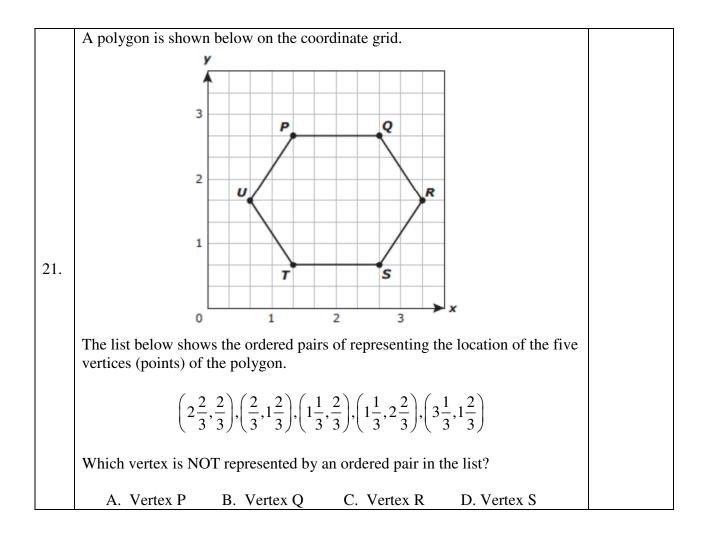






	The niste menh hal	we show the number of Smooties	hu oolon th	at l	
	SpongeBob ate last	ow shows the number of Smarties. Saturday.	, by color, the	at l	
	C-L	Number of Counting	Engrand		
	Colour Green	Number of Smarties	Frequency 7		
	Orange		8		
	Blue		5		
	Pink		6		
	Yellow		11		
	Red		8		
7.	Purple		7		
	Brown		3		
		Key 🛑 = 2 smarties			
	Which statement he	low is best supported by the infor	motion in the	tabla?	
		low is best supported by the infor			
		k Smarties to orange Smarties is 4	to 3.		
	B. The total number	er of Smarties he ate was $27\frac{1}{2}$.			
	C. He ate two more	e yellow Smarties than purple Sma	arties.		
	D. The median nur	nber of Smarties of the colors is 7	•		
	A librarian recorded the last 9 days show	the number of books that were c	hecked out o	n each of	
	142, 136, 125, 148, 150, 152, 115, 131, 136				
8.	Which measure of data shows how much the number of checked out books varies of the last 9 days?				
	A. Mean	C. Mode			
	B. Median	D. Range			





Solve. Label your answer.

			Proportion	Answer
1.	12 cups equals how many pints?			
2.	632 milligrams equals how many gran	ns?		
3.	You found a rock that weighed 9,000 grams. What is the weight of the rock in kilograms?			
	A. 9 kg C. 900 B. 90 kg D. 9,00	kg 0,000 kg		

4.	John's little brother Jimmy weighed 8 pounds 2 ounces at birth. What was his weight at birth in ounces?				
5.	At 9:00 AM the temperature on the thermometer showed 61°F. If the temperature rose 3°F every hour, what was the temperature at 1:00 PM?				
6.	Leslie used 6 fluid ounces of milk in her brownies. She used 7 fluid ounces of milk in her scalloped potatoes. If she used an additional 5 fluid ounces of milk in her hot chocolate, how many cups of milk did Leslie use?				
	The measurements in the list below have a common characteristic.				
	 25 days 480 hours				
7.	Which statement describes the common characteristic?				
	A. Each measurement is equivalent to 2 weeksB. Each measurement is greater than 5 weeks.C. Each measurement is equivalent to 4 weeks.D. Each measurement is less than 4 weeks.				

0	e 1	otal of 2,000 milliliters of water each day. What is the ers that she gives her plants over 3 weeks?	
δ.	A. 2 L B. 6 L	C. 42 L D. 60 L	

9.	Mrs. Fauatea spent 8 hours baking and 12 hours tutoring during a period of 2 weeks. If Mrs. Fauatea continues at this rate, how many hours will she spend participating in them during 52 weeks?				
10.	On Tuesday night Lucas spent 18 minutes on social studies homework, 29 minutes on language arts homework, and 59 minutes on mathematics homework. About how much time in all did Lucas spend on his homework?				
	A. 1 hour, 50 minutesC. 1.5 hoursB. 1 hour, 10 minutesD. 1.1 hours				
11.	Gerald got out of bed at 7:05 AM and returned home from school at 2:50 PM. About how many hours elapsed between the time he got out of bed and the time he returned home from school?				
	A. 4 hoursC. 7 hoursB. 5 hoursD. 8 hours				
12.	Justin and Selena both started running a race at 8:15 AM. Selena finished the race in 4 hours and 30 minutes. Justin finished the race 1 hour and 15 minutes after Selena did. At what time did Justin finish the race?				
	A. 2:00 PMC. 1:00 PMB. 12:45 PMD. Not here				

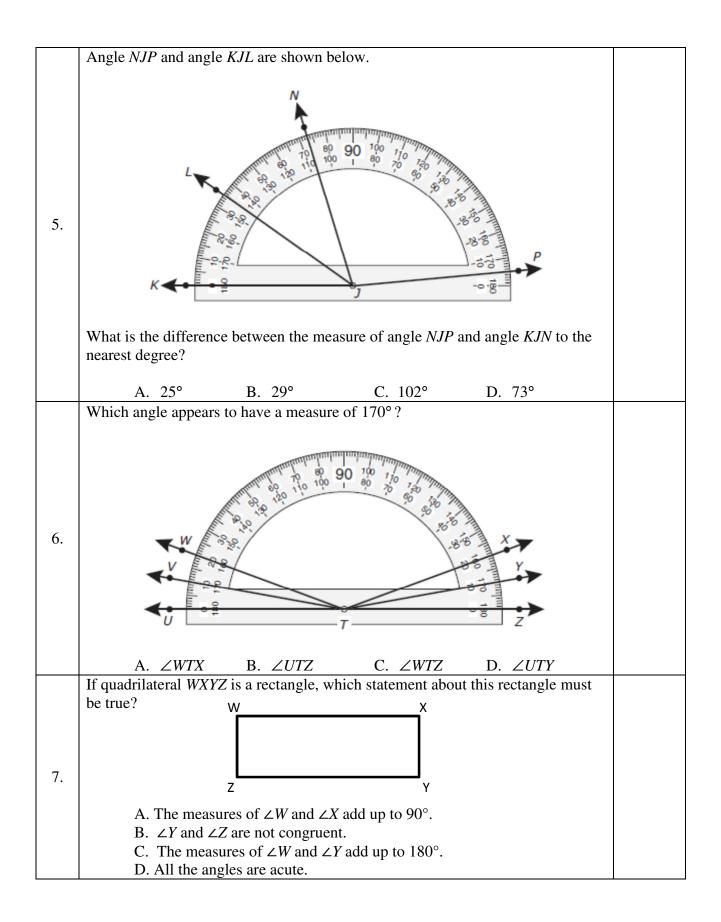
	-	how much time she s	spent on her homewo	ork 4 days last					
	week. Homework								
		Day	Time (minutes)						
		Monday	90						
13.		Tuesday	110						
10.	-	Wednesday	35						
		Thursday	75						
	What is the total ar A. 3 hours B. 5 hours		pend on her homewo C. 6 hours 10 n D. 4 hours 20 n	ninutes					
14.	Martha ran at a pace of 8 miles per hour. If she ran from 4:30 PM to 6:00 PM, how far did she run?								
	Measure the follow	ving line segment to the	ne nearest half inch.	I					
15.									
	•			•					
16.	-	is a scale drawing of a natics Chart to measu	re the dimensions of						
	Scale 1 inch = 2 feet								
	Which of the following is closest to the perimeter (the total distance around) in feet of the actual bulletin board?								
	A. 11 ft B. 5.5 ft		22 ft 18 ft						
				os of the line					
	Use the ruler on the Mathematics Chart to measure the lengths of the line segments below to the nearest inch. Which is the ratio of <i>UV</i> to <i>XY</i> ?								
17.	U ●			V					
	• <u>×</u>		Y						

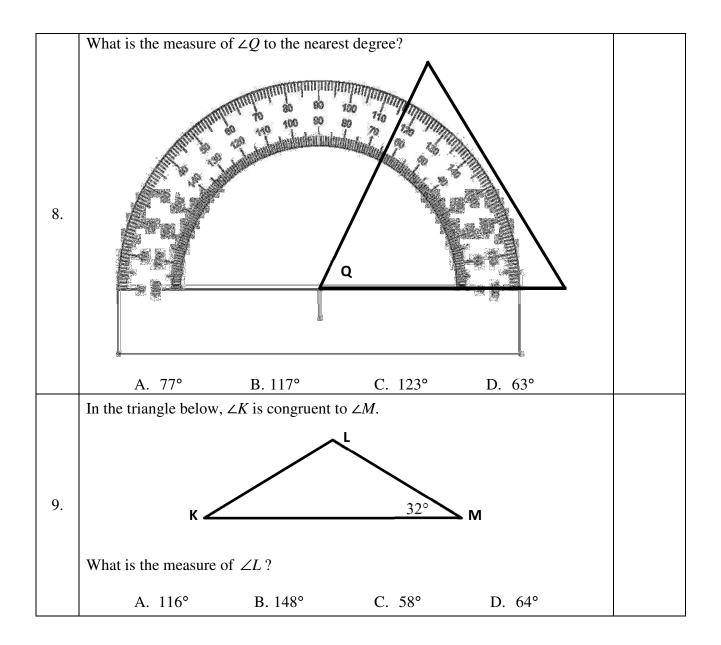
18.	The total length of minutes. Each song number of songs th					
	A. 10 B. 40		74 16			
19.	At 7:26 AM, Mrs. Hawley started delivering packages. • At 10:34 AM, she delivered the last package. • She delivered a total of 18 packages. • She spent about the same amount of time delivering each package. Which of the following is the best estimate of the number of minutes Mrs. Hawley spent delivering each package? A. 10 min C. 60 min B. 180 min D. 20 min					
20.	Larry woke up to his alarm at 5:45 AM. If he took 35 minutes to get ready for work, 15 minutes to drive to work, and 6 minutes to ride the elevator, what time did Larry arrive in his office?					
21.	Harry walked around the track one time in 6 minutes and 45 seconds. If he walked around the track 12 times, what would his total walking time be?					
	Sarah kept track of how much time she spent on her homework 4 days last week.					
	week.					
		Day	Time (minutes)			
		Monday	100]		
22.		Tuesday	120]		
		Wednesday	45			
		Thursday	90			
	What is the total amount of time Sarah spends on her homework these 4 days?A. 4 hours 25 minutesB. 4 hours 15 minutesD. 3 hours 55 minutes					

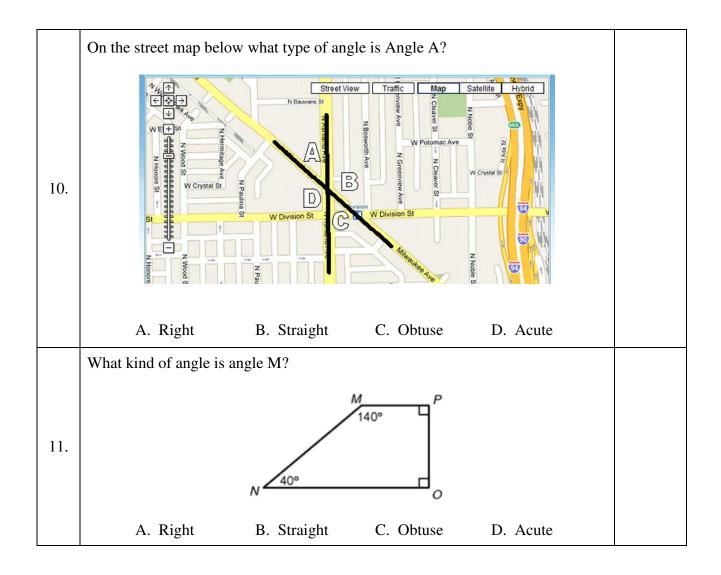
Geometric Shapes/Angles XV

Name:

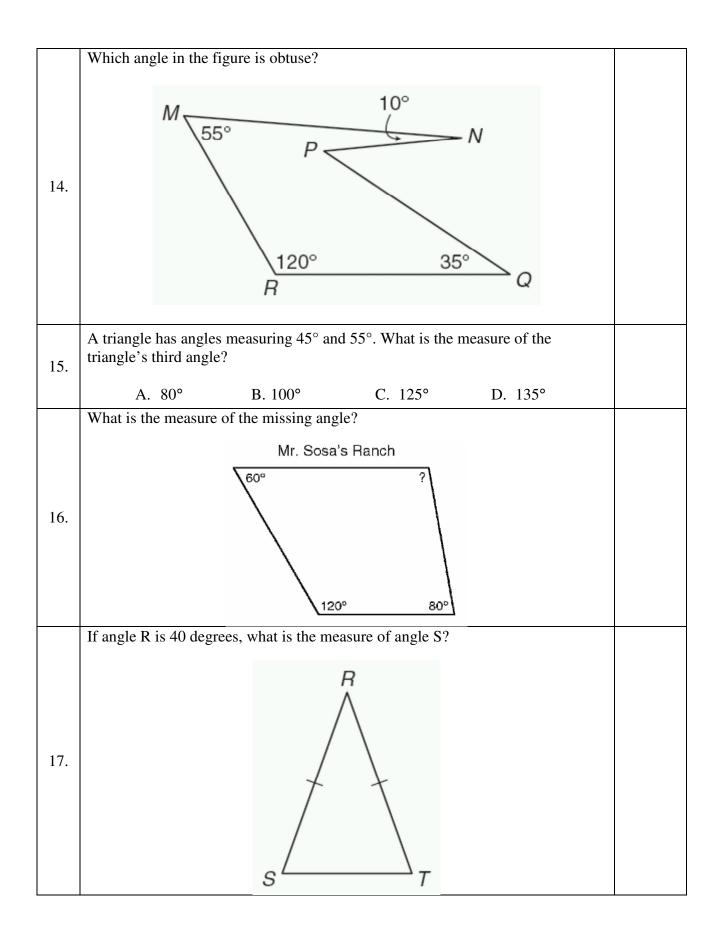
]			
1.	This is the sum of the angles of any triangle.				
2.	This is the sum of the angles of any quadrilateral.				
3.	Dora added the sum of the angles of an isosceles triangle to the sum of the angles of a rectangle. She then divided the sum by five and added the number of sides of an octagon to the quotient. If she did all this correctly, what was her final value?				
	A. 80 B. 152 C. 116 D. 100				
4.	Which statement about figure <i>ABCD</i> is true? B B 135° 120° C A. The difference between the measures of $\angle A$ and $\angle B$ is 75°. B. The difference between the measures of $\angle A$ and $\angle C$ is 15°. C. The sum of the measures of $\angle A$, $\angle C$, and $\angle D$ is 315°. D. The sum of the measures of $\angle A$, $\angle B$, and $\angle C$ is 300°.				

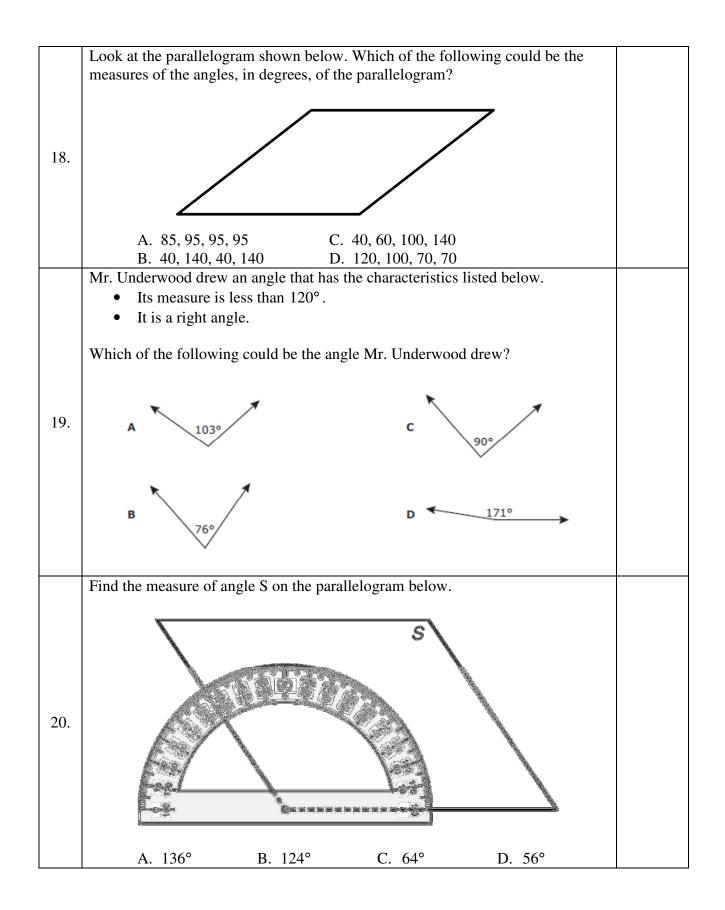


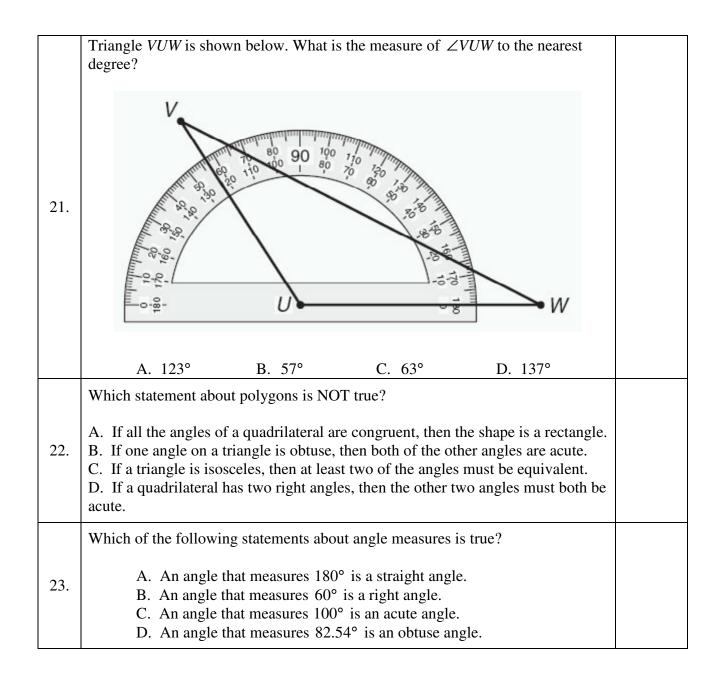




	In which picture is angle P obtuse?	
12.	$B = \begin{bmatrix} P \\ P \\ P \\ P \\ P \\ R \\ R \\ Q \\ R \\ R \\ Q \\ R \\ R$	
13.	Control Clubs Control Clubs 6 iron 32 degrees 7 iron 36 degrees 8 iron 40 degrees 9 iron 45 degrees Pitching wedge 50 degrees 8. The pitching wedge is the only golf club with an obtuse angle. C. The 9 iron is the only club with a right angle. D. All the golf clubs have acute angles. All the golf clubs have acute angles.	





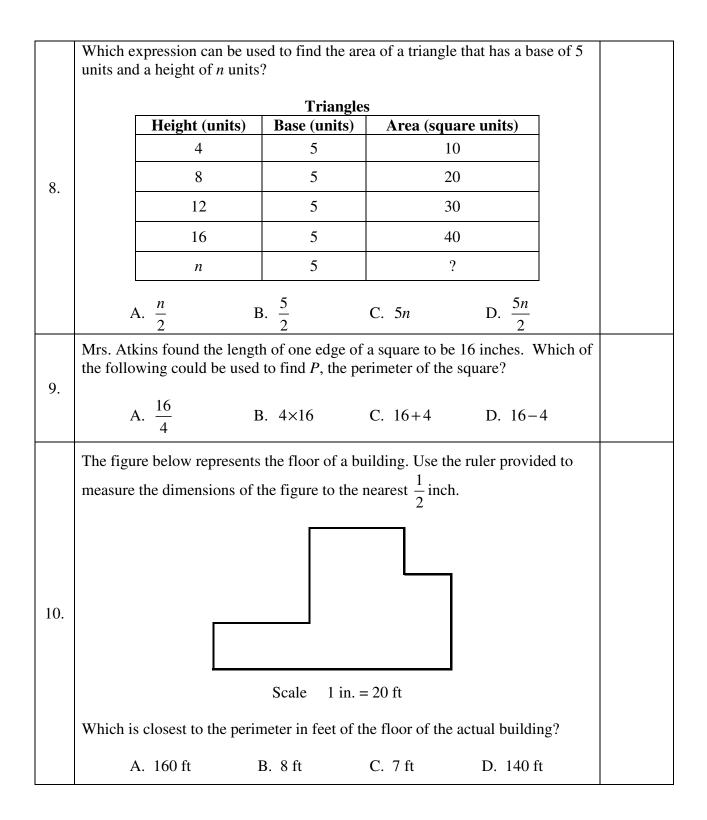


Show all work on a separate sheet of paper.

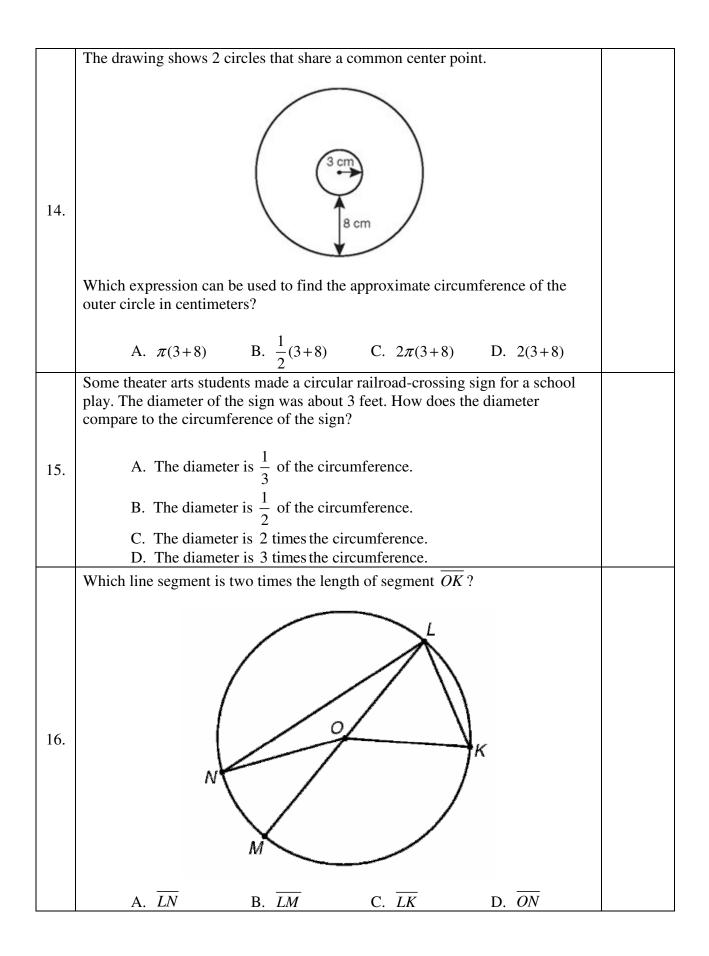
Be sure to show all steps when utilizing a formula to compute a length or area.

1.	A stop sign is a regular polygon with each side being 12.6 inches. What is the perimeter of a stop sign?
2.	Using the formula $A = \frac{1}{2}bh$, find the area of a triangle with: • a height of 5 m • a base four times the height
3.	A rectangle has a length of 10 ft. The width of the rectangle is 4 less than twice the length. What is the perimeter of the rectangle?
4.	Find the perimeter of the isosceles triangle below.

	Mrs. Moore had a box to pack her secret surprise gift for her favorite math teacher. The box looks like the figure below. What is the volume of the box if all sides are congruent and all edges are 9 inches?				
5.					
		-	area of several triangles.	All of these	
	triangles have a	base length of 6 feet.			
	Г	Height, <i>h</i> (feet)	angles Area, A (square feet)		
		5	15	-	
		10	30	-	
6.		15	45	-	
0.		20	60		
	Which of the following equations best represents the relationship between the height, <i>h</i> , and area, <i>A</i> , of these triangles? A. $A = h + 5$ C. $A = \frac{h}{3}$				
	B. $A = h$	e+10 D	A = 3h		
	The table below rectangle has a w		area of several rectangles.	. Each	
		Rect	angles		
		Length, <i>h</i> (feet)	Area, A (square feet)		
		4	48	_	
		6	72 96	_	
7.		10	120		
		n			
	Which expression can be used to find the area of a rectangle with the same width and a length of n feet?				
	A. n^2	B. 12 <i>n</i>	C. <i>n</i> +24 I	D. $\frac{n}{12}$	



	The table below shows how the volu width increases and its length and he	ume of a rectangular prism changes as its eight remain the same.	
	Rectar	ngular Prisms	
	Width, <i>w</i> (inches)	-	
	5	400	
	7	560	
11.	9	720	
	10	800	
	rectangular prism's width, w, and its	est represents the relationship between the s volume, V? C. $V = w \div 80$ D. $V = w + 395$	
12.	You know the circumference of a circomplete to determine the diameter α A. Add π B. Subtract π	rcle. Which operation would you need to of the circle? C. Divide by π D. Multiply by π	
13.	F, and \tilde{G} are on line segment DH. T		
	A. 4 mm B. 7 mm	C. 11 mm D. 8 mm	



	A circle has a diameter of 6 centimeters.			
17.	Which expression can be used to find the approximate circumference of this circle?			
	A. $\pi(6)$ B. 2(6) C. $2\pi(6)$ D. $2\pi(12)$			
18.	The circumference of a circle is 25.12 centimeters. Find the approximate length of the circle's radius.			
	A. 4 cm B. 5 cm C. 8 cm D. 10 cm			
	The circumference of a circular garden is 32 feet. Which of the following expressions best represents the radius of the garden?			
19.	A. $\frac{32}{\pi}$ C. $\frac{32}{2\pi}$			
	B. $32 \bullet \pi$ D. $32 \bullet 2\pi$			
	In the figure below, the vertices of triangle <i>RST</i> are on a circle.			
20.	T S S			
	 Line segment <i>TS</i> contains the center of the circle. The perimeter of triangle <i>RST</i> is 24 inches. 			
	What is the circle's radius?			
	A. 8 inches, because $d = 24-8$ and $d \div 2 = r$ B. 32 inches, because $d = 24-8$ and $d \times 2 = r$ C. 20 inches, because $d = 24-(8+6)$ and $d \times 2 = r$ D. 5 inches, because $d = 24-(8+6)$ and $d \div 2 = r$			

RANDOM QUESTIONS

	ular polygons are sho	own in the table below.	
4		-	
6		-	
-		-	
		-	
		ble?	
	pounds. Which sta	dement is best	
	dulta		
•			
the homework grade	s of the students in	Mrs. Smith's class.	
	Х		
	Х		
Х	Х		
Х	Х		
		7	
$\frac{\Lambda}{\Lambda}$ D	$\frac{\Lambda}{\Omega}$ Λ Λ		
2			
		D.	
		ceived an A or a B.	
received a C or lowe	er.		
arble, 1 blue marble,	1 yellow marble, an	nd 1 green marble in a	
arbles at random from	n the bag. Create a	tree diagram to show	
r combinations of the	e 2 marbles that Cha	arlie picked.	
lygon is made of con	gruent equilateral tr	riangles. The table	
r			
Area of triangle	Area of polygor	2	
5			
6	36		
6 n	36		
n		de of triangles with an	
n		de of triangles with an	
	Side Length (inches) 4 6 8 10 e is represented by the r an elevator is 2,000 formation? carry more than 20 a carry more than 20 c a carry up to 8 people n carry twice as many the homework grade X A B supported by the info er of students receive arceived a C or lowe arble, 1 blue marble, arbles at random fror or bina	perimeters of some regular polygons are shown in the state of the s	perimeters of some regular polygons are shown in the table below.Side LengthPerimeter (inches) 4 20 6 30 8 40 10 50 e is represented by the information in the table?r an elevator is 2,000 pounds. Which statement is best formation?carry more than 20 adults.carry more than 20 crates that weigh 100 pounds each.a carry twice as many children as adults.the homework grades of the students in Mrs. Smith's class.XXXXXXXXXXXXXXXXXABCDFsupported by the information in the line plot?er of students received a B as received a D.ts received a C or higher.er of students received a D or an F as received an A or a B.ereceived a C or lower.arble, 1 blue marble, 1 yellow marble, and 1 green marble in a anarbles at random from the bag. Create a tree diagram to show er combinations of the 2 marbles that Charlie picked.olygon is made of congruent equilateral triangles. The table ip between area of the triangle and the area of the polygon it isAABCDABABCDreceived a C or lower.ardom from the bag.

4. If there were 36 yellow rosebushes, about how many red rosebushes would there	
be?	
There were 14 boats and 42 people registered for the boat race. Write a ratio that	
accurately compares the number of people to the number of boats.	
If the ratio of boys to girls in the sixth-grade chorus is 2 to 3, which of these shows	
possible numbers of the boys and girls in the chorus?	
A. 20 boys, 35 girls	
B. 24 boys, 36 girls	
C. 35 boys, 20 girls	
D. 36 boys, 24 girls	
For a science project Ruth is keeping track of the calories her father eats at	
breakfast. The table shows the number of calories he ate at breakfast on Monday.	
Oat Cereal, 1 serving, 80 calories	
Skim Milk, 1 serving, 40 calories	
Orange Juice, 1 serving, 86 calories	
Banana, 1 serving, 105 calories	
Flavored coffee, 1 serving, 55 calories	
Which is closest to the number of calories Ruth's father ate at breakfast on	
Monday?	
A. 200 cal B. 300 cal C. 400 cal D. 500 cal	