7<sup>th</sup> Grade STAAR Test Prep

# Mr. Mangham's Math Class

**HMH Texas Test Prep Questions** 

Name: \_\_\_\_\_

Name:

| Linear Equations   |                                      |                                       |   |  |
|--|--------------------------------------|---------------------------------------|---|--|
| Slope-intercept form y   |                                      | nx+b                                  | Direct Variation  | y = kx (8 <sup>th</sup> grade)   |
| Constant of proportionality  |                                      | $\frac{v}{x}$                         | Slope of a line   | $m = \frac{y_2 - y_1}{x_2 - x_1}$ (8 <sup>th</sup> grade)                          |
| Circumference  | Circle                               |                                       | $C = 2\pi r$ or $C = \pi d$   |  |
| Area   |                                      |                                       | 1   |  |
| Rectangle A  | =bh                                  |                                       | Trapezoid   | $A = \frac{1}{2}(b_1 + b_2)h$  |
| Parallelogram A  | =bh                                  |                                       | Circle  | $A = \pi r^2$  |
| Triangle A   | $=\frac{bh}{2}$ or $A=\frac{1}{2}bh$ |                                       |   |  |
| Surface Area (8th grade)   |                                      | Lateral                               | Tot   | tal  |
| Prisn  | n                                    | S = Ph                                | S = F   | Ph+2B  |
| Cylin  | ıder                                 | $S = 2\pi r$                          | $s = 2\pi t$  | $rh+2\pi r^2$  |
| Volume   |                                      | 1                                     |   |  |
| Triangular prism   | V = Bh                               |                                       | Cylinder V =  | $=Bh \text{ or } V = \pi r^2 h  (8^{\text{th}} \text{ grade})$                     |
| Rectangular prism  | V = Bh                               |                                       | Cone V  | $=\frac{1}{3}Bh \text{ or } V = \frac{1}{3}\pi r^2 h$ (8 <sup>th</sup> )           |
| Pyramid  | $V = \frac{1}{3}Bh$                  |                                       | Sphere V =  | $=\frac{4}{3}\pi r^3$ (8 <sup>th</sup> grade)                                      |
| Pi   | $\pi \approx 3.14 \text{ or } \pi$   | $T \approx \frac{22}{7}$              |   |  |
| Distance   | d = rt                               | С                                     | ompound Interest  | $A = P(1+r)^t$   |
| Simple Interest  | I = prt                              | P                                     | ythagorean Theorem  | $a^2 + b^2 = c^2  (8^{\text{th}} \text{ grade})$                                   |
| Customary – Leng<br>1 mile = 1760 yar<br>1 yard = 3 feet<br>1 foot = 12 inche                | g <b>th C</b><br>ds<br>:s            | Customar<br>1<br>1 cup<br>1 c<br>1 ga | y - Volume/Capacity<br>pint = 2 cups<br>= 8 fluid ounces<br>quart = 2 pints<br>illon = 4 quarts | Customary – Mass/Weight<br>1 ton = 2,000 pounds<br>1 pound = 16 ounces             |
| Metric - Length $1  kilometer = 1000  m$ $1  meter = 100  centim$ $1  centimeter = 10  mill$ | neters<br>neters<br>imeters          | <i>Metric</i> -<br>1 liter            | - <i>Volume/Capacity</i><br>= 1000 milliliters  | <i>Metric – Mass/Weight</i><br>1 kilogram = 1000 grams<br>1 gram = 1000 milligrams |

# Day 1 Mixed Review

|    | What is $-7\frac{5}{12}$ written as a decimal?   |  |  |  |  |  |  |  |  |
|----|--|--|--|--|--|--|--|--|--|
| 1. | 12   |  |  |  |  |  |  |  |  |
|    | A -7.25 B -7.3 C -7.416 D -7.512   |  |  |  |  |  |  |  |  |
|    | Which set or sets does the number $-9\frac{1}{2}$ belong to?   |  |  |  |  |  |  |  |  |
| 2  | $\frac{1}{2}$  |  |  |  |  |  |  |  |  |
| 2. | A Integers only C Integers and rational numbers only   |  |  |  |  |  |  |  |  |
|    | B Rational numbers only D Whole numbers, integers, and rational numbers  |  |  |  |  |  |  |  |  |
|    | Kareem had \$25 in his bank account on Monday. The table shows his account activity  |  |  |  |  |  |  |  |  |
|    | for the next four days. What was the balance in Kareem's account on Friday?  |  |  |  |  |  |  |  |  |
|    | Monday none \$13.50  |  |  |  |  |  |  |  |  |
| 3  | Tuesday \$85.10 none   |  |  |  |  |  |  |  |  |
| 5. | Wednesday none \$55.32   |  |  |  |  |  |  |  |  |
|    | Thursday \$17.95 none  |  |  |  |  |  |  |  |  |
|    |  |  |  |  |  |  |  |  |  |
|    | A \$59.23 B \$9.23 C -\$9.23 D -\$59.23  |  |  |  |  |  |  |  |  |
|    | A used hoat is on sale for \$2.400 Austin makes an offer equal to $\frac{2}{2}$ of this price. How   |  |  |  |  |  |  |  |  |
|    | 3 3 3  |  |  |  |  |  |  |  |  |
| 4. | much does Austin offer for the boat?   |  |  |  |  |  |  |  |  |
|    | A \$3,600 B \$1,800 C \$1,600 D \$800  |  |  |  |  |  |  |  |  |
|    | $W_{1} = (1 - 0)^{2} + (1 - 2)^{2} + (1 - 1$ |  |  |  |  |  |  |  |  |
|    | Working together, 9 friends pick $23-$ bags of apples at an orchid. They divide the bags $5$   |  |  |  |  |  |  |  |  |
| 5. | of apples equally between them. How many bags does each friend get?  |  |  |  |  |  |  |  |  |
|    | 2 2 3 5  |  |  |  |  |  |  |  |  |
|    | A $32\frac{2}{5}$ bags B $14\frac{2}{5}$ bags C $2\frac{5}{5}$ bags D $2\frac{5}{9}$ bags  |  |  |  |  |  |  |  |  |
|    | The Flathead Rail Tunnel in Montana is about $7\frac{3}{-}$ miles long. A train travels at a speed   |  |  |  |  |  |  |  |  |
|    | 4  |  |  |  |  |  |  |  |  |
| 6  | of $\frac{3}{4}$ mile per minute. How long will it take the train to go through the tunnel?  |  |  |  |  |  |  |  |  |
| 0. | 4  |  |  |  |  |  |  |  |  |
|    |  |  |  |  |  |  |  |  |  |
|    | A $-\frac{16}{16}$ minute B $5\frac{-16}{16}$ minutes C $8\frac{-100}{3}$ minutes D $10\frac{-100}{3}$ minutes   |  |  |  |  |  |  |  |  |
|    | To which set or sets does the number $-18$ belong?   |  |  |  |  |  |  |  |  |
| 7. |  |  |  |  |  |  |  |  |  |
|    | A Integers only C Integers and rational numbers only   |  |  |  |  |  |  |  |  |
|    | B Kational numbers only D whole numbers, integers, and rational numbers  |  |  |  |  |  |  |  |  |

| 8.  | What is the value of $(-2.75)(1.16)$ ? [griddable]   |
|-----|--|
| 9.  | Mrs. Rodriguez is going to use $6\frac{1}{3}$ yards of material to make two dresses. The larger<br>dress required $3\frac{2}{3}$ yards of material. How much material will Mrs. Rodriguez have left<br>to use on the smaller dress?<br>A $1\frac{2}{3}$ yards B $2\frac{1}{3}$ yards C $2\frac{2}{3}$ yards D $3\frac{1}{3}$ yards   |
| 10. | Winslow buys 1.2 pounds of bananas. The bananas cost \$1.29 per pound. To the nearest<br>cent, how much does Winslow pay for the bananas?A \$1.08B \$1.20C \$1.55D \$2.49  |
| 11. | Roberta earns \$7.65 per hour. How many hours does Roberta need to work to earn \$24.48? [griddable]   |
| 12. | What is the product of the following expression? $(2.2)(1.5)(-4.2)$ [griddable]  |
| 13. | Victor is ordering pizzas for a party. He would like to have $\frac{1}{4}$ of a pizza for each guest. He can only order whole pizzas, not part of a pizza. If he expects 27 guests, how many pizzas should he order? [griddable]   |
| 14. | <ul> <li>A rabbit can run 35 miles per hour. A fox can run 21 miles in half an hour. Which animal is faster, and by how much?</li> <li>A The rabbit is faster by 7 miles per hour.</li> <li>B The fox is faster by 7 miles per hour.</li> <li>C The rabbit is faster by 14 miles per hour.</li> <li>D The fox is faster by 14 miles per hour.</li> </ul>   |
| 15. | A pet survey found that the ratio of dogs to cats is $\frac{2}{5}$ . Which proportion shows the<br>number of dogs to cats if the number of cats is 140?<br>A $\frac{2 \text{ dogs}}{5 \text{ cats}} = \frac{140 \text{ dogs}}{350 \text{ cats}}$ C $\frac{2 \text{ dogs}}{5 \text{ cats}} = \frac{28 \text{ dogs}}{140 \text{ cats}}$<br>B $\frac{2 \text{ dogs}}{5 \text{ cats}} = \frac{140 \text{ cats}}{350 \text{ dogs}}$ D $\frac{2 \text{ dogs}}{5 \text{ cats}} = \frac{56 \text{ dogs}}{140 \text{ cats}}$<br>What is the cost of 2 kilograms of flour if 3 kilograms cost \$4.86 \text{ and the unit price for}} |
| 16. | each package of flour is the same?<br>A \$0.081 B \$2.86 C \$3.24 D \$9.72   |



#### Day 2 Mixed Review

| 1  | Zalmon walks $\frac{3}{4}$ of a mile in $\frac{3}{10}$ of an hour. What is his speed in miles per hour?                    |  |
|----|--|--|
| 1. |  |  |
|    | A $0.225$ miles per hour C $2.5$ miles per hour  |  |
|    | B 2.3 miles per hour D 2.6 miles per hour  |  |
|    | $1 \text{ meter} = 1.1 \text{ yards} \qquad 1 \text{ meter} = 3.3 \text{ feet}$  |  |
|    | 1  meter = 39.4  meter = 0.0000  miles   |  |
| 2. | Shaylyn measured her house as 5 meters tall. Which of these is an equivalent measurement?                                  |  |
|    | $\Lambda = 0.3$ miles $C = 16.5$ feet  |  |
|    | R = 0.5 mines $C = 10.5$ leet $D = 27.2$ inches  |  |
|    | Find the percent change from 70 to 56  |  |
|    | The the percent change from 70 to 50.  |  |
| 3. | A 20% decrease C 25% decrease  |  |
|    | B 20% increase D 25% increase  |  |
|    | Delia uses 3.5 skeins of yarn to knit one complete scarf. How many scarves can she   |  |
| 1  | complete if she has 19 skeins of yarn?   |  |
| 4. |  |  |
|    | A 4 scarvesB 5 scarvesC 6 scarvesD 7 scarves   |  |
|    | The rainfall total two years ago was 10.2 inches. Last year's total was 20% greater.                                       |  |
| 5. | What was last year's rainfall total?   |  |
|    |  |  |
|    | A 8.16 inches B 11.22 inches C 12.24 inches D 20.4 inches  |  |
| 6. | A pair of basketball shoes was originally priced at \$80, but was marked up 37.5%. What was the retail price of the shoes? |  |
|    | A \$50 B \$83 C \$110 D \$130  |  |

|     | The day after Halloween candy was the new retail price?  | marked down 40%. Whic                                    | ch expression represents                              |  |
|-----|--|--|---|--|
| 7.  | $A  0.4n \qquad B  0.6n$   | C = 1.4 n  | D = 16n   |  |
|     | The sales tax rate in Jan's town is $7.3$  | 5%. If she buys 3 lamps f                                | for \$23.59 each and a sofa                           |  |
| 8.  | for \$769.99, how much sales tax doe   | es she owe?  |   |  |
|     | A \$58.85 B \$63.06  | C \$67.26  | D \$71.46   |  |
| 9.  | A bank offers an annual simple inter<br>much would Tobias owe if he borrow                       | est rate of 8% on home in<br>ved \$17,000 over a period  | nprovement loans. How d of 2 years?                   |  |
|     | A \$1,360 B \$2,720  | C \$18,360   | D \$19,720  |  |
| 10. | The granola Summer buys used to co<br>How much in dollars and cents will s<br>price? [griddable] | ost \$6.00 per pound, but it<br>Summer pay for 2.6 pound | t has been marked up 15%.<br>ds of granola at the new |  |
| -   | Which shows a pair of shapes that ar measure   | re not similar? All corresp                              | ponding angles have equal                             |  |
| 11. | A $\frac{8}{8}$ $\frac{10}{10}$  | .0 20 C  | 12  |  |
|     | B 10 4 6   | D $9 \int_{6}^{9} 9$                                     | $12 \bigwedge_{8} 12$                                 |  |
|     | A scale drawing of a rectangular dec<br>What is the perimeter of the actual d                    | k is shown below. The so<br>eck?                         | cale used is 2 in: 25 ft.                             |  |
| 12. |  | 11 in 4 in   |   |  |
|     | A 187.5 ft B 375 ft  | C 550 ft   | D 750 ft  |  |
| 13. | The two triangles below are similar.   | Find the area of the large                               | er triangle.  |  |
|     | A 8 square units B 36 square   | units C 64 square unit                                   | ts D 128 square units                                 |  |
| 14. | An advertising company is creating a similar figures. What percent of the [griddable]            | a large wall banner and a a area of the banner is the a  | smaller flyer that are area of the flyer?             |  |
|     | 40 in  | 15 in 24 in  | x in  |  |

| 15. | If the relationship between distance y in total feet and time x in seconds is proportional,<br>which rate is represented by $y = 0.6x$ ? |  |  |  |  |  |  |
|-----|--|--|--|--|--|--|--|
|     | A 2 fact in 5 c $D$ 2 fact in 0 c $C$ 10 fact in 6 c $D$ 18 fact in 2 c  |  |  |  |  |  |  |
|     | A Steet III SS B Steet III 9S C TO feet III 0S D To feet III 5S  |  |  |  |  |  |  |
|     | the relationship between the number r of months and the amount v in dollars in the   |  |  |  |  |  |  |
|     | account.   |  |  |  |  |  |  |
|     | 350  |  |  |  |  |  |  |
|     | 300  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |
|     | $(\mathfrak{S})$   |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |
| 16. | 50   |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |
|     | Months   |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |
|     | What is the equation for the deposit?  |  |  |  |  |  |  |
|     | A $\frac{y}{x} = \$25/\text{month}$ C $\frac{y}{x} = \$50/\text{month}$  |  |  |  |  |  |  |
|     | B $\frac{y}{x} = \$40/\text{month}$ D $\frac{y}{x} = \$75/\text{month}$  |  |  |  |  |  |  |
|     | 1 meter = $1.1$ yards 1 meter = $3.3$ feet   |  |  |  |  |  |  |
|     | 1 meter = $39.4$ inches 1 meter = $0.0006$ miles   |  |  |  |  |  |  |
| 17  | Rosa's room is 1 meters wide Which of these is an equivalent measurement?  |  |  |  |  |  |  |
| 17. | Rosa's room is 4 meters whee. Which of these is an equivalent measurement?   |  |  |  |  |  |  |
|     | A 0.28 miles C 12.4 feet   |  |  |  |  |  |  |
|     | B 4.4 yards D 136.2 inches   |  |  |  |  |  |  |
|     | Find the percent change from 72 to 90.   |  |  |  |  |  |  |
| 18. | $\Delta = 20\%$ decrease $C = 25\%$ decrease   |  |  |  |  |  |  |
|     | B 20% increase D 25% increase  |  |  |  |  |  |  |
|     | A store had a sale on art supplies. The price p of each item was marked down 60%.  |  |  |  |  |  |  |
| 19. | Which expression represents the new price?   |  |  |  |  |  |  |
|     | A 0.4 <i>p</i> B 0.6 <i>p</i> C 1.4 <i>p</i> D 1.6 <i>p</i>  |  |  |  |  |  |  |
|     | Clarke borrows \$16,000 to buy a car. He pays simple interest at an annual rate of 6%  |  |  |  |  |  |  |
| 20. | over a period of 3.5 years. How much does he pay altogether?   |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |
| 1   | $D \psi_{1},500 D \psi_{1},500 C \psi_{1},720 D \psi_{2},700$  |  |  |  |  |  |  |

|     | The smaller circle has a diameter that is half the size of the larger circle. What is the missing circumference in centimeters? [griddable] |
|-----|---|
| 21. |   |
|     | C = ? C = 53.38 cm  |
| 22. | Jermaine paid \$37.95 for 11 gallons of gasoline. What was the price in dollars per gallon? [griddable]                                     |
|     | Shown below is a scale drawing of a rectangular patio.  |
| 23. | 21 cm<br>12 cm Scale 2 cm: 1ft  |
|     | What is the perimeter of the actual patio? [griddable]  |
|     | Day 3 Mixed Deview  |



|     | Omar began the week with \$25. He took a city bus to and from school, paying \$1.25 for each trip. Let $x$ be the number of trips he took and $y$ be the amount of money he had left |                           |                        |  |                      |                     |                    |                              |                    |  |
|-----|--|---------------------------|------------------------|--|----------------------|---------------------|--------------------|------------------------------|--------------------|--|
| 3.  | at the end of the week. Which equation represents the relationship in this situation?  |                           |                        |  |                      |                     |                    |                              |                    |  |
|     | A $y = 1.25x + 25$ C $x = -1.25y + 25$   |                           |                        |  |                      |                     |                    |                              |                    |  |
|     | B <i>y</i> = -   | 1.25x + 25                |                        |  | D                    | <i>y</i> = 1.2      | 25x - 25           |                              |                    |  |
|     | Which table represents the same linear relationship as the equation $y = 5x + 7$ ?   |                           |                        |  |                      |                     |                    |                              |                    |  |
|     |  | Α                         | x                      | 0  | 1                    |                     | 2                  | 3                            |                    |  |
|     |  |                           | у                      | 0  | 5                    |                     | 10                 | 15                           |                    |  |
|     |  | В                         | r                      | 2  | 3                    |                     | 4                  | 5                            | 7                  |  |
| 4.  |  | D                         | $\frac{x}{y}$          | 17   | 22                   | 2                   | 27                 | 32                           | _                  |  |
|     |  | G                         |                        | 1  |                      |                     | 2                  |                              | -                  |  |
|     |  | С                         | <i>x</i>               | <u>l</u><br>12   | 2                    | )                   | $\frac{3}{26}$     | 4                            | -                  |  |
|     |  |                           | y                      | 12   | 15                   |                     | 20                 | 55                           |                    |  |
|     |  | D                         | x                      | 1  | 2                    |                     | 3                  | 4                            |                    |  |
|     | G 1' '   | 1 • .                     | <i>y</i>               | 12   | 17                   | 7                   | 24                 | 31                           | <i>C</i>           |  |
|     | Selina is p  | lanning to                | ) paint a la           | arge picture   | on a wa              | all. She            | e draws a si       | maller versi<br>2 in:1 ft wi | on first.          |  |
| 5.  | area of the  | actual pi                 | cture on th            | ne wall?   | ic scale             | of the              | liawing is         | 2 III.1 II, WI               | lat 15 the         |  |
|     |  | 1                         |                        |  |                      |                     |                    |                              |                    |  |
|     | A 4 feet   |                           |                        | B 3 feet   |                      | С                   | 48 in <sup>2</sup> | D                            | $12 \text{ ft}^2$  |  |
|     | The equat  | ion $y = 3$ .             | 5x - 210               | represents th  | e profi              | t made              | by a manu          | facturer that                | t sells            |  |
| 6.  | products f<br>the profit   | or \$3.50 e<br>in dollars | ach, wher<br>when 80 ι | e <i>y</i> is the pro<br>inits are sold  | ofit and<br>1? [gric | x is the dable]     | e number o         | of units sold.               | . What is          |  |
|     | A taxi cab   | costs \$1.                | 50 for the             | first mile an  | d \$0.75             | 5 for ea            | ch addition        | al mile. W                   | hich               |  |
|     | equation c   | ould be so                | plved to fi            | nd how man   | y miles              | s you ca            | in travel in       | a taxi for \$                | 10, if <i>x</i> is |  |
| 7.  | the numbe  | er of addit               | ional mile             | S?   |                      |                     |                    |                              |                    |  |
|     | A 10=1   | .5x + 0.75                |                        |  | С                    | 10 = 1.             | 5x - 0.75          |                              |                    |  |
|     | B 10=0   | 0.75x + 1.5               |                        |  | D                    | 10 = 0.             | 75x - 1.5          |                              |                    |  |
|     | Tony oper  | ates a ska                | te rental c            | ompany. He   | e charg              | es an eo            | quipment f         | ee of \$3 plu                | s \$6 per          |  |
| 0   | hour. Wh   | ich equati                | on represe             | ents this line   | ar relat             | ionship             | <i>(</i>           |                              |                    |  |
| 0.  | A $v = 6$  | x+3                       |                        |  | С                    | v = -6              | x+3                |                              |                    |  |
|     | B $y = 3x$   | x + 6                     |                        |  | D                    | y = 3x              | -3                 |                              |                    |  |
|     | Which equ  | uation has                | x = 8 for              | a solution?  |                      | •                   |                    |                              |                    |  |
| 9   |  |                           |                        |  | _                    |                     | • •                |                              |                    |  |
|     | A $2x+3$   | 3 = 13                    |                        |  | C                    | 3x-5                | = 29               |                              |                    |  |
|     | $\mathbf{D}$ $4x + 0$<br>Which ine   | p = 38<br>conality ha     | s the follo            | wing granh   | ed solu              | $\frac{3x-8}{100}$  | = 40               |                              |                    |  |
|     |  | Autrity IId               |                        | Sound Brahm  | <b>cu</b> 5010       |                     |                    |                              |                    |  |
| 10. |  |                           |                        | • • • • • • • • •  | •<br>• • • •         | <br>0 -1 -1         | 1 1 1              | •                            |                    |  |
|     | $A 3r \pm 8$   | < 2                       |                        | - 1996 - 1996 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 199<br>1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1<br>1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - | C                    | $2r \pm 5$          | <1                 |                              |                    |  |
|     | $\begin{bmatrix} 1 \\ B \end{bmatrix} 4x+1$  | $\frac{2}{2} < 4$         |                        |  | D                    | $\frac{2x+5}{3x+6}$ | < 3                |                              |                    |  |

| 11  | Which rep   | presents th                | e solution              | for the ineq                          | uality $3x-7$  | >5?                         |                                |                |  |
|-----|---|----------------------------|-------------------------|---------------------------------------|--|-----------------------------|--------------------------------|----------------|--|
| 11. | A <i>x</i> < 4  |                            | B x s                   | ≤4                                    | C $x > 4$  |                             | D $x \ge 4$                    |                |  |
| 12. | The 30 members of a choir are trying to raise at least \$1,500 to cover travel costs to a singing camp. They already raised \$600. Which inequality could you solve to find the average amount each member can raise in order to meet the goal?   |                            |                         |                                       |  |                             |                                |                |  |
|     | $\begin{vmatrix} A & 30x + \\ B & 30x + \end{vmatrix}$  | 600 > 150<br>$600 \ge 150$ | )0<br>)0                |                                       | $\begin{array}{cc} C & 30x - \\ D & 30x - \end{array}$ | +600 <1500<br>+600 ≤1500    |                                |                |  |
| 13. | Mrs. Drennan keeps a bag of small prizes to distribute to her students. She likes to keep<br>at least three times as many prizes in the bag as she has students. The bag currently has<br>72 prizes in it. Mrs. Drennan has 26 students. What is the least amount of prizes Mrs.<br>Drennan needs to buy? [griddable] |                            |                         |                                       |  |                             |                                |                |  |
| 14. | Timothy began the week with \$35. He bought lunch at school, paying \$2.25 for each<br>meal. Let $x$ be the number of meals he bought at school and $y$ be the amount of money<br>he had left at the end of the week. Which equation represents the relationship in the<br>situation?                                 |                            |                         |                                       |  |                             |                                |                |  |
|     | A $y = 2$   | .25x + 35                  | -                       |                                       | C  x = -   | -2.25y + 35                 |                                |                |  |
|     | $\mathbf{B}  y = -\mathbf{W}$   | 2.25x + 35                 | )                       |                                       | D  y = 2   | $\frac{2.25x-35}{100}$      | 2                              |                |  |
|     | which tac   | ole represe                | ents the sa             | me linear rei                         | lationship as  | the equation                | y = 3x + 9                     |                |  |
|     |   | А                          | x                       | 0                                     | 1  | 2                           | 3                              | ]              |  |
|     |   |                            | У                       | 0                                     | 2  | 6                           | 9                              |                |  |
|     |   |                            |                         |                                       |  |                             | -                              | 1              |  |
| 15  |   | В                          | <i>x</i>                | 2                                     | 3  | 4                           | 5                              | -              |  |
| 13. |   |                            | y                       | 15                                    | 10   | 21                          | 24                             |                |  |
|     |   | С                          | x                       | 1                                     | 2  | 3                           | 4                              |                |  |
|     |   |                            | у                       | 12                                    | 21   | 30                          | 39                             |                |  |
|     |   |                            |                         | -                                     |  |                             |                                | 1              |  |
|     |   | D                          | <i>x</i>                | 1                                     | 18   | 3                           | 4                              | -              |  |
|     | The 23 m  | embers of                  | the schoo               | j jazz hand s                         | are trving to 1  | ∠/<br>raise at least        | \$1.800 to co                  | ver the        |  |
| 16. | cost of tra<br>inequality<br>goal?  | veling to a could you      | a competi<br>u solve to | tion. The me<br>find the amo          | embers have<br>ount each me                            | already rais<br>mber should | ed \$750. Wl<br>l raise to mee | nich<br>et the |  |
|     | $\begin{array}{c} A & 23x + \\ B & 23x + \end{array}$   | 750 > 180<br>$750 \ge 180$ | )0<br>)0                |                                       | C $23x - D$<br>D $23x - D$                             | +750 <1800<br>+750 ≤1800    |                                |                |  |
| 17. | What is th  | e solutior                 | $\mathbf{P}$ of the ine | equality $2x - $                      | -9<7?  |                             |                                |                |  |
|     | Which ine   | quality h                  | $\frac{D}{as}$ the solu | <u>so</u><br>ition shown?             | $\frac{C}{2}$  | 1                           | $D  \lambda \leq 0$            |                |  |
|     |   | 1                          |                         |                                       |  |                             |                                |                |  |
| 18. |   |                            |                         | • • • • • • • • • • • • • • • • • • • | -2 -1 0 +1   | +2 +3 +4 +5                 | •                              |                |  |
|     | A $3x+5$  | <i>5</i> < 2               |                         |                                       | C $2x +$   | 5≤1                         |                                |                |  |
|     | B $4x + 1$  | 2 < 4                      |                         |                                       | D $3x +$   | $6 \leq 3$                  |                                |                |  |

| 19. | What is the greatest whole number that makes the inequality $4x + 4 \le 12$ true?<br>[griddable below] |  |  |  |  |
|-----|--|--|--|--|--|
| 20. | What is the solution to the equation $8x - 11 = -75$ ? [griddable]                                     |  |  |  |  |



|     | Find the area in square meters of the figure. [griddable]   |  |
|-----|---|--|
| 7.  | 6 m   |  |
| 8.  | The volume of a triangular pyramid is 232 cubic units. The area of the base of the pyramid is 29 square units. What is the height of the pyramid?   |  |
|     | A 8 units B 12 units C 16 units D 24 units  |  |
| 9.  | What is the volume of a rectangular prism that has a length of 8.5 centimeters, a width of 3.2 centimeters, and a height of 6 centimeters?  |  |
|     | A $19.2 \text{ cm}^3$ B $27.2 \text{ cm}^3$ C $51 \text{ cm}^3$ D $163.2 \text{ cm}^3$  |  |
| 10. | What is the volume of the rectangular pyramid shown?<br>A 576 cm <sup>3</sup><br>B 72 cm <sup>3</sup><br>C 192 cm <sup>3</sup><br>D 1728 cm <sup>3</sup><br>B cm                                    |  |
| 11. | A circle has a circumference of $56\pi$ . What is the radius of the circle?   |  |
| 12. | A     26 cm     D     112 cm       What is the volume of a triangular prism that has a height of 45 meters and has a base with an area of 20 square meters?     Image: C     88 cm     D     112 cm |  |
|     | A         225 m <sup>3</sup> B         300 m <sup>3</sup> C         450 m <sup>3</sup> D         900 m <sup>3</sup>   |  |
| 13. | What is the total surface area of the square pyramid<br>whose net is shown?<br>A 100 in <sup>2</sup><br>B 130 in <sup>2</sup><br>C 160 in <sup>2</sup><br>D 220 in <sup>2</sup>                     |  |

| 14. | What is the lateral surface area in square units of<br>the prism?<br>A 1568 square units<br>B 1736 square units<br>C 1904 square units<br>D Not here   |  |
|-----|--|--|
| 15. | The volume of a triangular pyramid is 437 cubic units. The height of the pyramid is 23 units. What is the area of the base of the pyramid?<br>A $6.3 \text{ units}^2$ B $19 \text{ units}^2$ C $38 \text{ units}^2$ D $57 \text{ units}^2$ |  |
| 16. | The dimensions of the pyramid are given. What is the volume of the pyramid?<br>A 480 in <sup>3</sup><br>B 240 in <sup>3</sup><br>C 160 in <sup>3</sup><br>D 80 in <sup>3</sup>   |  |
| 17. | What is the lateral surface area of the square pyramid<br>whose net is shown?<br>A 64 cm <sup>2</sup><br>B 112 cm <sup>2</sup><br>C 48 cm <sup>2</sup><br>D 96 cm <sup>2</sup>   |  |
| 18. | A bank offers a home improvement loan with simple interest at an annual rate of 12%.JT borrows \$14,000 over a period of 3 years. How much will he have to pay backaltogether?A \$15,680B \$17,360C \$19,040D \$20,720                     |  |
| 19. | The radius of the circle is given in meters. What is the circumference of the circle?<br>A 25.12 meters<br>B 50.24 meters<br>C 200.96 meters<br>D 803.84 meters  |  |

| 20. | The dimensions of the figure are given in millimeters.<br>What is the area of the two-dimensional figure?<br>A 39 mm <sup>2</sup><br>B 169 mm <sup>2</sup><br>C 208 mm <sup>2</sup><br>D 247 mm <sup>2</sup> |  |  |  |
|-----|--|--|--|--|
| 21. | What is the measure in degrees of an angle that is supplementary to a 74° angle?<br>[griddable]  |  |  |  |
| 22. | What is the volume in cubic centimeters of a rectangular prism that has a length of 6.2 centimeters, a width of 3.5 centimeters, and a height of 10 centimeters? [griddable]                                 |  |  |  |



#### Day 5 Mixed Review

|    | The dot plot below shows the number of pencils each boy has at his desk in class.   |  |
|----|---|--|
| 4. | $ \begin{array}{c} \bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\$ |  |
|    | Find the median for the number of pencils. [griddable]  |  |
| 5. | A middle school has 490 students. Mae surveys a random sample of 60 students and finds that 24 of them have pet dogs. How many students are likely to have pet dogs?                            |  |
|    | A 98 B 196 C 245 D 294  |  |
| 6. | Caitlyn finds that the experimental probability of her making a three-point shot is 30%.<br>Out of 500 three-point shots, about how many could she predict she would make?                      |  |
|    | A 100 B 115 C 125 D 150   |  |
|    | The box plot shows the results from a survey in which 50 of the school's 7 <sup>th</sup> graders were asked about their height. Which could you infer based on the box plot below?              |  |
|    | • • • • • • • • • • • • • • • • • • •   |  |
| 7. | 35 40 45 50 55 60 65 70 75 80 85 90 95  |  |
| ,. | Height (in)   |  |
|    | <ul> <li>A Most 7<sup>th</sup> graders are at least 65 inches tall.</li> <li>B Most 7<sup>th</sup> graders are at least 54 inches tall.</li> </ul>  |  |
|    | C Almost no $7^{th}$ graders are less than 60 inches tall.  |  |
|    | D Almost no / graders are more than ou inches tall.<br>Which of the following is a random sample?   |  |
|    | when of the following is a fandom sample:   |  |
|    | A A radio DJ asks the first 10 listeners who call in if they liked the last song.   |  |
| 8. | B 20 customers at a chicken restaurant are surveyed on their favorite food.   |  |
|    | choosing names from a list of all registered voters   |  |
|    | D Rebecca used an email poll to survey 100 students about how often they use the  |  |
|    | Mary wanted to know the amount of time 7 <sup>th</sup> grade students spend on homework each  |  |
|    | week, so she surveyed 20 students at random. The results are shown below.   |  |
| 9. |   |  |
|    | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   |  |
|    | Amount of time in hours   |  |
|    | There are 164 students in the 7 <sup>th</sup> grade Predict how many 7 <sup>th</sup> grader students spend 5  |  |
|    | hours on homework in a week. [griddable]  |  |





| 20. | The expe<br>of 600 da  | rimental proba<br>ys, on about h  | bility of hearin<br>ow many days | ng thunder on a<br>can Ohioans e | ny given day<br>xpect to hear t | in Ohio is 30%<br>thunder? | o. Out         |
|-----|--|-----------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------|----------------|
|     | A 90 da  | ays E                             | 180 days                         | C 210                            | days                            | D 420 days                 |                |
|     | Izzy tosse   | ed two coins se                   | everal times an                  | d then recorded                  | the results ir                  | n the table belo           | W.             |
|     |  | Toss 1                            | Toss 2                           | Toss 3                           | Toss 4                          | Toss 5                     |                |
|     |  | Н; Т                              | T; T                             | Т; Н                             | Н; Т                            | H; H                       |                |
| 21. |  |                                   |                                  |                                  |                                 |                            |                |
|     | What is t  | he experimenta                    | al probability t                 | hat both coins                   | will land on th                 | ne same side or            | ı Izzy's       |
|     | A $\frac{1}{5}$  | E                                 | $\frac{2}{5}$                    | C $\frac{3}{5}$                  |                                 | D $\frac{4}{5}$            |                |
|     | Maggie has a spinner that was evenly divided into sections of red, blue, and green. She spun the spinner and tossed a coin several times. The table below shows the results. |                                   |                                  |                                  |                                 |                            | 1. She<br>lts. |
|     |  | Trial 1                           | Trial 2                          | Trial 3                          | Trial 4                         | Trial 5                    | 1              |
| 22. |  | blue; T                           | green; T                         | green; H                         | red; T                          | blue; H                    |                |
|     | Given the<br>answer as   | e results, what<br>s a decimal. [ | is the experim<br>griddable]     | ental probabilit                 | y of spinning                   | blue? Write a              | n              |

#### Day 6 Mixed Review

|    | What is the probability of flipping two fair coins and having both show tails? |                                    |  |                            |  |
|----|--|------------------------------------|--|----------------------------|--|
| 1  |  |                                    |  |                            |  |
| 1. | $\Delta \frac{1}{2}$   | $\mathbf{B} = \frac{1}{2}$         | $C = \frac{1}{2}$  | $D = \frac{1}{2}$          |  |
|    | A 8  | 4                                  | 3  | 2                          |  |
|    | A bag contains 8 wh  | ite marbles and 2                  | 2 black marbles. You pick  | x out a marble, record its |  |
|    | color, and put the ma  | arble back in the                  | bag. If you repeat this pro  | ocess 45 times, how many   |  |
| 2. | times would you exp  | ect to remove a                    | white marble from the bag  | <u>9</u> ?                 |  |
|    |  | D 22                               | C 26   | D 40                       |  |
|    | A 9  | D 32                               | $\frac{C}{24} \frac{30}{100} \frac{1}{100} \frac{1}$ | $\frac{D}{100}$            |  |
|    | Philip rolls a standar   | a number cube 2                    | 4 times. What is the best  | prediction for the number  |  |
| 3. | of times he will roll a  | a number that is                   | even and less than 4?  |                            |  |
|    | A 2  | R 3                                | C 4  | D 6                        |  |
|    | A set of cards includ  | $\frac{D}{es}$ 24 vellow car       | $\frac{c}{ds}$ 18 green cards and 18   | blue cards What is the     |  |
|    | probability that a car   | d chosen at rand                   | om is not green?   | onde cards. What is the    |  |
| Δ  | probability that a car   | a enosen at fana                   | om is not green.   |                            |  |
| т. | 3  | 4                                  | 3  | 7                          |  |
|    | A $\frac{3}{10}$   | B $\frac{1}{10}$                   | $C = \frac{5}{5}$  | D $\frac{7}{10}$           |  |
|    | Δ rectangle made of  | square tiles mea                   | sures 10 tiles long and 8 t  | iles wide What is the      |  |
|    | width of a similar red   | square mes mea<br>ctangle whose le | noth is 15 tiles?  | nes whee. What is the      |  |
| 5. |  | ctangle whose le                   | ingui is 15 thes.  |                            |  |
|    | A 3 tiles  | B 12 tiles                         | C 13 tiles   | D 18.75 tiles              |  |
|    | You buy a game that  | originally cost S                  | 35. It was on sale at 20%  | off. You paid 6% tax on    |  |
| (  | the sale price. What   | was the total am                   | ount you paid?   | 1                          |  |
| 6. | ±  |                                    | • 1  |                            |  |
|    | A \$29.68  | B \$37.10                          | C \$44.10  | D \$44.52                  |  |

| 7   | The Fernandez family drove 273 miles in 5.25 hours. How far would they have driven at that rate in 4 hours?   |  |
|-----|---|--|
| /.  | A 208 miles B 220 miles C 280 miles D 358 miles   |  |
| 8.  | There are 20 tennis balls in a bag. Five are orange, 7 are white, 2 are yellow, and 6 are green. You choose one at random. Which color ball are you least likely to choose?   |  |
|     | A green B orange C white D yellow   |  |
| 9.  | Gabby's frozen yogurt cones come in 3 flavors: chocolate, vanilla, and strawberry.<br>There are 4 choices of toppings: sprinkles, strawberries, nuts, and granola. You choose a<br>cone at random. What is the probability, expressed as a decimal, that you get a cone with<br>strawberry topping? [griddable] |  |
| 10. | During the month of April, Dora kept track of the bugs she saw in her garden. She saw a lady bug on 23 days of the month. What is the experimental probability that she will see a ladybug on May 1?  |  |
|     | A $\frac{1}{23}$ B $\frac{7}{30}$ C $\frac{1}{2}$ D $\frac{23}{30}$   |  |
| 11  | Ryan flips a coin 8 times and gets tails all 8 times. What is the experimental probability that Ryan will get heads the next time he flips the coin?  |  |
| 11. | A 1 B $\frac{1}{2}$ C $\frac{1}{8}$ D 0   |  |
|     | Jay tossed two coins several times and then recorded the results in the table below.  |  |
|     | Toss 1         Toss 2         Toss 3         Toss 4         Toss 5           H; H         H; T         T; H         T; T         T; H   |  |
| 12. | What is the experimental probability that the coins will land on different sides on his next toss?  |  |
|     | A $\frac{1}{5}$ B $\frac{2}{5}$ C $\frac{3}{5}$ D $\frac{4}{5}$   |  |
|     | What is the probability of tossing two fair coins and having exactly one land tails side $un^2$   |  |
| 13. | up?   |  |
|     | A $\frac{1}{8}$ B $\frac{1}{4}$ C $\frac{1}{3}$ D $\frac{1}{2}$   |  |
|     | Find the percent change from 60 to 96.  |  |
| 14. | A37.5% decreaseC60% decreaseB37.5% increaseD60% increase  |  |
|     | Jason, Eric, and Jamie are friends in art class. The teacher randomly chooses 2 of the 21   |  |
| 15. | students in the class to work together on a project. What is the probability that two of these three friends will be chosen?  |  |

| 16. | Phillip rolls a number cube 12 times. Which is the best prediction for the number of times he will roll a number that is odd and less than 5?  |  |  |  |  |  |
|-----|--|--|--|--|--|--|
|     | A 2 B 3 C 4 D 6  |  |  |  |  |  |
| 17. | A bag contains 6 white beads and 4 black beads. You pick out a bead at random, record its color, and put the bead back in the bag. You repeat the process 35 times. How many times would you expect to remove a white bead from the bag? [griddable] |  |  |  |  |  |
| 18. | A survey reveals that one airline's flights have a 92% probability of being on time. Out of 4,000 flights a year, how many flights would you predict to arrive on time? [griddable]  |  |  |  |  |  |

#### Day 7 Mixed Review

|    | Tela bought a backpack for \$34.99 and 3 notebooks for \$1.89 each. What is the total |                               |                         |              |                              |                |                             |                      |  |
|----|---|-------------------------------|-------------------------|--------------|------------------------------|----------------|-----------------------------|----------------------|--|
| 1. | pri   | ce, including                 | a 8% sale               | es tax?      |                              |                |                             |                      |  |
|    |   | <b>MO 77</b>                  | D                       | Φ40.CC       | C                            | Φ41 0 <b>7</b> | D                           | ¢ 42 01              |  |
|    | A   | \$38.77                       | B                       | \$40.66      | C                            | \$41.87        | D                           | \$43.91              |  |
|    | Ta  | ylor's gross                  | monthly                 | pay is \$2,5 | 500. Use th                  | is informa     | ation for 2-4               | •                    |  |
| 2. | Tay<br>wit  | ylor pays 15.<br>hholding doo | 6% of his<br>es he pay? | monthly in   | ncome for fe                 | ederal with    | nholding. Ho                | w much federal       |  |
|    | А   | \$32.50                       | В                       | \$375        | С                            | \$390          | D                           | \$2,110              |  |
|    | Но  | w much does                   | s Taylor p              | ay for Mee   | licare, whic                 | h is 1.45%     | of his montl                | hly salary?          |  |
| 3. |   |                               |                         |              |                              |                |                             |                      |  |
|    | Α   | \$30.56                       | В                       | \$36.25      | С                            | \$2,140.5      | 6 D                         | \$2,536.25           |  |
|    | Ho  | w much does                   | s Taylor p              | ay for Soc   | ial Security,                | which is (     | 6.2% of his n               | nonthly income?      |  |
| 4. |   |                               |                         |              |                              |                |                             |                      |  |
|    | Α   | \$130.82                      | В                       | \$155        | С                            | \$2,240.8      | 2 D                         | \$2,655              |  |
|    | Kit   | can purchas                   | e a 6-pour              | nd item fro  | m several d                  | ifferent ret   | tailers. Whic               | ch is the best buy?  |  |
|    |   |                               |                         |              |                              |                |                             |                      |  |
| 5. | A   | Buy online                    | for \$24 pl             | us pay shi   | pping and h                  | andling co     | sts of \$0.79               | per pound.           |  |
| 0. | В   | Buy online                    | for \$25 pl             | us pay shi   | pping and h                  | andling co     | sts of \$0.49 j             | per pound.           |  |
|    | C   | Pay at a loc                  | al store w              | ith a regula | ar price of \$               | 32.95 and      | a \$5-off cou               | pon.                 |  |
|    | D   | Pay at a loc                  | al store w              | ith a regul  | ar price of \$               | 40 on sale     | $\frac{1}{25\%}$ off.       |                      |  |
|    | Eac   | ch year on th                 | e same da               | y, Lia depo  | osits \$200 ii               | n an accou     | nt that earns               | simple interest at a |  |
| 6. | rate  | e of 4%. Ho                   | w much in               | terest does  | s her accoun                 | it earn afte   | er 5 years?                 |                      |  |
|    |   | ¢ 40                          | Л                       |              | C                            | ¢100           | D                           | ¢1 <b>2</b> 0        |  |
|    | A   | \$40                          | B                       | \$8          | <u> </u>                     | \$100          | D                           | \$120                |  |
| 7. | On<br>mu  | ch interest w                 | vill the acc            | ount earn    | arning 3% i<br>after 5 years | if he mak      | npounding an tes no withdra | nnually. How awals?  |  |
|    | A   | \$45                          | В                       | \$47.78      | С                            | \$345          | D                           | \$347.78             |  |

|     | Carey computed her taxabl<br>Use the tax table to find the | e income as \$27,342 a<br>e amount in dollars Ca | and paid \$4,127 in federal<br>arey will get as a refund. | l withholding.<br>[griddable] |
|-----|--|--|---|-------------------------------|
|     | If line 4  | 3 (taxabla incomo                                | And you are single  |                               |
| 0   |  | But loss than                                    | Vour tox is   |                               |
| 0.  | 27 200   | 27 250   | 3 659   | -                             |
|     | 27,200   | 27,230   | 3,666   |                               |
|     | 27,300   | 27,350   | 3.674   |                               |
|     | 27,350   | 27,400   | 3,681   |                               |
|     | Which of the following is a                                | in example of income                             | ?   |                               |
| 0   | 0  | 1  |   |                               |
| 9.  | A insurance  | С  | wages   |                               |
|     | B emergency savings  | D  | taxes   |                               |
|     | Which of the following is a                                | in example of a variat                           | ole expense?  |                               |
| 10. | A successful and a log                                     | c c  | antantainmant   |                               |
|     | A weekly martial arts les                                  | son C  | monthly bus pass  |                               |
|     | Barry owns a home with a                                   | value of \$170,000 H                             | le owes \$4 400 on his car                                | which is                      |
|     | valued at \$11.500. He had                                 | \$9.500 in student loa                           | ns to repay. He owns \$3.                                 | 300 worth of                  |
| 11  | musical equipment. He has                                  | s a credit card balance                          | e of $$2,117$ . He also has $$$                           | 52,900 in a bank              |
| 11. | account. What is Barry's n                                 | et worth?  |   |                               |
|     |  |  |   |                               |
|     | A \$157,483 B \$   | \$165, 483 C                                     | \$171,683 D \$1   | 75,917                        |
|     | Which of the following is a                                | in example of an asse                            | ť?  |                               |
| 12. | A carloan  | C  | credit card bill  |                               |
|     | B savings bond   | D  | rent  |                               |
|     | The Garza family consists                                  | of two adults and two                            | children. Their current m                                 | nonthly income                |
|     | is \$4,800. The circle graph                               | shows their monthly                              | budget. How much mone                                     | ey in dollars do              |
|     | the Garzas spend on housir                                 | ng each month? [gridd                            | lable]  |                               |
|     |  |  |   |                               |
|     |  |  |   |                               |
|     |  | F00d   |   |                               |
|     | Emergency fund   | 15%  |   |                               |
|     | 5%   |  | Housing   |                               |
|     |  |  | 30%   |                               |
| 10  |  |  |   |                               |
| 13. | I ransportation _/   |  |   |                               |
|     | 378  |  |   |                               |
|     |  |  |   |                               |
|     |  |  | Savings   |                               |
|     |  | Medical  | 10%   |                               |
|     |  | 22%  |   |                               |
|     |  | Clothing   |   |                               |
|     |  | 6%   | Entertainm  | nent                          |
|     |  |  | 7%  |                               |
|     |  |  |   |                               |

|     | Evan makes \$2,8  | 800 a month and has                          | \$750 withheld as fede              | ral income tax. Use this    |  |  |  |
|-----|---|--|-------------------------------------|-----------------------------|--|--|--|
| 1.4 | information for the next 3 questions.   |  |                                     |                             |  |  |  |
| 14. | How much does Evan pay in Social Security, which is 6.2% of his monthly salary? |  |                                     |                             |  |  |  |
|     | A \$127.10  | B \$173.60                                   | C \$2,626.40                        | D \$2,672.90                |  |  |  |
| 15  | How much does   | Evan pay for Medicar                         | e, which is 1.45% of his            | s monthly salary?           |  |  |  |
| 13. | A \$29.73   | В \$40.60                                    | C \$2,759.40                        | D \$2,770.27                |  |  |  |
|     | What is Evan's n  | et monthly salary?                           |                                     |                             |  |  |  |
| 16. | A \$1835.80   | B \$1876.40                                  | C \$2,050                           | D \$2,585.80                |  |  |  |
|     | Which of the foll   | owing is not an exam                         | ple of a fixed expense?             |                             |  |  |  |
| 17. | A weekly marti  | al arts lesson                               | C vacation                          |                             |  |  |  |
|     | B monthly bus   | pass   | D rent                              |                             |  |  |  |
|     | Bonnie deposits S   | 5180 in a savings acco                       | bunt that earns simple in           | terest at an annual rate of |  |  |  |
| 18. | 570. 110w much  | interest does her acce                       | funt cam after 10 years.            |                             |  |  |  |
|     | A \$0.54  | B \$5.40                                     | C \$54                              | D \$540                     |  |  |  |
|     | Shelby can purch buy?   | ase a 4-pound item fr                        | om several different ret            | ailers. Which is the best   |  |  |  |
| 19. | A online for \$1  | 9, plus shipping and h                       | nandling costs \$0.89 per           | pound                       |  |  |  |
|     | B online for \$2  | 0, plus shipping and h                       | andling costs \$0.59 per            | pound                       |  |  |  |
|     | C \$29.95 with a  | a \$5-off coupon<br>ces for \$30 on sale for | r 25% off                           |                             |  |  |  |
|     | Which of the foll   | owing is not an exam                         | ple of an expense?                  |                             |  |  |  |
| 20. |   |  |                                     |                             |  |  |  |
|     | A savings<br>B entertainmen   | t  | C wages<br>D snacks                 |                             |  |  |  |
|     | Mr. Burr and his  | daughter live in Corp                        | us Christi, Texas. Mr. I            | Burr's employer pays 100%   |  |  |  |
|     | of his insurance p  | premium and 50% of t                         | the premiums for the res            | st of the family. His total |  |  |  |
| 21. | monthly expense<br>payroll and incon  | s according to an online taxes are \$257 and | he gets tax credits of \$2          | 245. What is his necessary  |  |  |  |
|     | monthly income?   | ,<br>,                                       |                                     |                             |  |  |  |
|     | A \$2.088   | B \$2.112                                    | C \$2.817                           | D \$3,827                   |  |  |  |
|     | Anthony owns a  | home with a value of $\psi^2$ , 112          | $\frac{2}{\$140,000}$ . He also own | is a motorcycle worth       |  |  |  |
|     | \$7,000. He has \$  | 22,500 in student loa                        | ns to repay. He owes 9              | monthly payments of \$55    |  |  |  |
| 22. | He also has \$3,400 in a  |  |                                     |                             |  |  |  |
|     |   | interest in a second second second           |                                     |                             |  |  |  |
|     | A \$112,620   | <u>B \$119,820</u>                           | C \$126,620                         | D \$128,190                 |  |  |  |
|     | what is the volur<br>area of 15 square  | ne of a triangular pris<br>meters?           | m that has a height of 3            | o meters and a base with an |  |  |  |
| 23. |   |  |                                     |                             |  |  |  |
|     | A $180 \text{ m}^3$   | B 270 $m^3$                                  | C $360 \text{ m}^3$                 | D 540 $m^3$                 |  |  |  |

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