For ful	l credit,	show	all	work.
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	Which stat	ement is false?										
	A Some integers are irrational.											
1.	B Some integers are whole numbers.											А
	С	Some rationa	l num	bers are	integer	rs.						
	D	Some real nu	mber	s are irra	tional.							
	To which s	et or sets does the	e num	ber 8.25	belong	g?						
	А	Integers only										
2.	В	Rational num	bers	only								В
	С	Integers and	Ratio	nal numb	bers on	ly						
	D	Whole numb	ers, Ir	ntegers, a	and Rat	ional r	umbers					
	Which rati	onal number is al	so an	integer?								
3.	٨	_82	B	65		C	43		Л	70		В
	A	6	D	13		C	5		D	25		
	Which nun	nber below is in t	he set	of integ	ers but	is not	in the se	t of whole	nun	nbers?		
4.	А	-2	В	0		С	$5\frac{1}{5}$		D	100		А
		_		-		-	2					
	How many	decimal places d	loes a	n irratior	nal num	ber ha	ve?					
5.	А	Zero		С	Infi	nite						С
	В	One		D	Betv	ween o	ne and te	en				
								Rational		$\sqrt{1}$	$\sqrt{9}$	
6.	Classify th	e following squar	e roo	ter $\sqrt{1}$.5	<u>, /0</u>	$\sqrt{20}$			¥ *	v	
	Classify ul	c ronowing squar	C 100	ιο. γΙ	γJ	N Z	V 20	Irrational		$\sqrt{5}$	$\sqrt{20}$)

Solve.

7.	2.3 + 12.04	14.34	8.	2.6 • 33	85.8
9.	800 - 1.25	798.75	10.	$\frac{7.816}{0.05}$	156.32

Solve each problem. Label your answers correctly.

11.	Mrs. Loewen decides to buy donuts for all of her students. She buys 80 donuts at Krispy Kreme. The first 40 cost \$0.60 each and then each additional donut is \$0.52. How much money did Mrs. Loewen spend?	\$44.80
12.	Carly initially earned a 9.625 on the balance beam. The judges then took off an additional 0.05 for every balance check. How many balance checks did Carly have if her final score was a 9.175?	9

13.	You want to hour, how m video game?	r 12					
14.	Derek spends \$3 on breakfast and \$5.50 on lunch every school day. How much does he spend on breakfast and lunch in a school week? 14.						
	A	\$38.50	C	\$49.90			
	В	\$42.50	D	\$59.50			
15.	A trampoline is the area of A B	 has a jumping su the jumping surfa 9.476 ft² 94.76 ft² 	rface that is ace? C D	10.3 feet long and 9.2 feet wide. Wh 947.6 ft ² 9.476 ft ²	hat B		
16.	Marco paid \$	336.89 for 8.6 gall	ons of gas. V	What is the price of 1 gallon of gas?	\$4.29		
17.	Alexis rode h miles did Joh	^{1y} 3.6 mi					
18.	Juan bought scoop of soaj needed to wa Juan washes	a box of laundry s p is enough to was ash heavy work clo 8 regular loads ar	soap that wei sh a regular l othes. How r nd 5 heavy lo	ghed 15.6 pounds. One 0.15-pound oad of laundry, but 2 scoops are nany pounds of soap are left after oads of laundry?	12.9 lb		

Write each expression using exponents.

19.	3•5•3•2•5•5	$2 \bullet 3^2 \bullet 5^3$	20.	$2 \bullet 2 \bullet x \bullet x \bullet x \bullet 2$	$2^3 \bullet x^3$
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	What is the f	irst operation you shou	uld perfo	orm to evaluate the expression below?			
21.	21. $9 \bullet 4 - (20 + 2^2)$						
	А	multiplication	С	evaluating the exponent			
	В	addition	D	subtraction			
	What is the f	irst operation you shou	ald performed $\frac{2+3}{5+6}$	orm to evaluate the expression below? $\frac{3}{6}$			
22.			5+0	0	А		
	А	add the numerator	С	multiply			
	В	divide 2 by 5	D	divide 3 by 6			
	What is the v	value of the expression	below?				
23.		2	• $\frac{3^3 + 1}{7}$	+5•8	48		
			7				

Solve.

24.	$88 \div \left(\frac{32}{0.4}\right)$	1.1	25.	$\sqrt{1764}$	42
26.	$\sqrt{324}$	18	27.	28 ²	784
28.	$\sqrt{40}$ (to the nearest tenth)	6.3	29.	$\sqrt{231}$ is between which two consecutive whole numbers?	15, 16

	What would not be included as part of an algebraic expression?	
30.	A an equals signC one or more numbersB at least one variableD an operation such as addition	А
31.	Jar Jar Binks decides he wants to sell cookies to all of his strange friends. He buys 4 bags of chocolate chips and 8 boxes of cookie mix for a total of \$24.25. Each bag of chocolate chips costs \$2.69. Which equations can be used to find the total cost of one box of cookie mix? A $t = (\$2.69 \cdot 4) + 24.25$ B $t = \$24.25 - (\$ \cdot \$2.69)$ C $t = (\$24.25 - 4 \cdot \$2.69) \div \$$ D $t = (\$24.25 - \$2.69) \div \$$	С
32.	The Empire Inc. employs 2500 workers. It plans to decrease its workforce by 50employees per month until it is half its current size. Which equation could be used to determine m, the number of months it will take to cut in half?A $2500m - 50m = 1250$ C $2(50m - 250) = 1250$ B $2m + 50 = 1250$ D $2500 - 50m = 1250$	D

A = Associative PropertyB = Identity PropertyC = Commutative PropertyD = Distributive Property

33.	Sarah asked Mr. Mangham what 6 times 82 equals. Being the math genius he is, Mr. Mangham replied that 6 times 80 is 480 and 6 times 2 is 12. When you add 480 and 12 together you get a total of 492. Which property did Mr. Mangham use?	D
34.	Jack asked Mr. Underwood what 59+67+41 equals. Being the math genius he is, Mr. Underwood replied that 59+41 equals 100. Add 67 more you get 167. Which property did Mr. Underwood use?	С
35.	Sam asked Mrs. Fauatea what $(17 \cdot 20) \cdot 5$ equals. Being the math genius she is, Mrs. Fauatea replied that the expression is that same as $17 \cdot (20 \cdot 5)$ which is obviously 1700. Which property did Mrs. Fauatea use?	А

Evaluate each expression.

36.	$4^3 + 2^3$	72	37.	$(11^2 - 9) \bullet 2$	224	38.	(6.2-2)•(8-1.3)	28.14
39.	$5^3 - 3^2 \bullet 7$	62	40.	$15 - 3 \bullet 5 + 2$	2	41.	$64 - 12 \bullet \sqrt{4^2}$	16

42. For the jedi arena shown below, write the correct equations and then solve for the number of jedis.



Evaluate each expression if a = 4, b = 2, c = 6, and d = 9, u=1.

43.	$\frac{b(d-c)+30}{3a}$	3	44.	(2bad) + (4u)	148

Write each phrase as an algebraic expression or equation.

2	45.	three less than the square root of c	$\sqrt{c}-3$
4	46.	twice a number increased by 7 is 55	2x + 7 = 55

Order from least to greatest.

47.	$\sqrt{130}, 11, (3.2)^2, \frac{0.45}{0.04}$	$(3.2)^2$	11	$\frac{0.45}{0.04}$	√ <u>130</u>
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48.	Mr. Mangham wrote the numbers below on the board. Which number is closest to 3?	$\sqrt{10}$
	$\sqrt{6},\sqrt{10},\sqrt{12},\sqrt{14}$	





