Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Translate the phrase to an algebraic expression. Use x to represent "a number."

1) A number divided by -6

A)
$$x \div -6$$
 or $\frac{x}{-6}$

D) -6 ÷ x or
$$\frac{-6}{x}$$

1) _____

Simplify.

5)
$$3^2 \div 3 \times 3 + 7$$

A) 16

8)
$$5^2 \div 5 \times 2 + 2$$

A) 0

10) ____

11)

10)
$$\frac{52(7-4)-24}{32-3}$$

11)
$$\frac{4-7}{-1}$$

1

			ds or phrases liste						
	erence	area	square root			exponent	variable		
place value factor		quotient	subtra		product minuend	expression			
	sum whole number solution set		perimeter equation	divide diviso		minuena	digits		
30101	11011	301	equation	arvisoi	!				
12)) An	is a sh	orthand notation for repeated multiplication of the same factor.				12)		
	A) equa	ition	B) area	C)	expression	on	D) exponent		
12\	\ co tho fo	ets bolovy						13)	
13,) Use the fa	cts below.		7				13) -	
	2 · 3 = 6	4 + 17 = 21	20 - 9 = 11	5) 35					
	The number 11 above is called the								
	A) quotient		B) minuend		C) subtrahend		D) difference		
			b) mindend	b) filliacità b) afficietà					
14)) To find th	e	of a rectangle, multiply length times width.					14)	
	A) solu	tion	B) area	C)	product		D) perimeter	_	
Multiply		2)						15)	
10,) 8(-1)(9)(- A) 216	3)	B) -216	C)	2		D) 35	15) -	
	71, 210		<i>D</i>) 210	3)	_		2) 00		
Solve.									
16)) Subtract 8	from 77.						16)	
	A) 79		B) 69	C)	68		D) 70		
17`	A deep-sea diver dives from the surface to 154 meters below the surface and then swims up 8							17)	
•••	meters, down 17 meters, down another 28 meters, and then up 24 meters. Find the diver's depth							.,, -	
	after these movements.								
	•	eters below the s		•	B) 183 meters below the surface				
	C) 167 meters below the surface D) 111 meters below the surface								
18`) In a distant galaxy the gravity of planet A is 218 times as strong as the gravity of planet B, so objects							s 18)	
	on planet A weigh 218 times as much as they weigh on planet B. If the object weighs 29,866 pound								
	on planet A, how much does it weigh on plant B?								
	A) 1370	lb	B) 147 lb	C)	130 lb		D) 137 lb		
10`	19) Find the volume of a rectangular box 8 inches by 7 inches by 2 inches.							19)	
17,	A) 128		B) 112 cu in.	•	28 cu in.	103.	D) 392 cu in.	''/ -	
	·		,	·			·		
20)	20) The seats in the lecture hall are arranged in 23 rows with 7 seats in each row. Find how many							20)	
	are in this		D) 154 costs	C)	1/1		D) 171 costs		
	A) 168 s	SEGIS	B) 154 seats	C)	161 seats	•	D) 171 seats		
21	Last year a company had 5847 employees. This year the number of employees increased by 1396.							21)	
•	How many employees does the company have now?							´ -	
	A) 7253	employees	B) 7343 employe	es C)	7143 emp	oloyees	D) 7243 employee	S	

Fill in the balnk with one of the the words or phrases listed below.

inequality symbols expression

addition average

solution negative is less than absolute value

integers equation

positive

opposites

is greater than

multiplication

23)

24)

26)

A) equation

22) A combination of operations, on variables and numbers is called an B) average

C) absolute value

D) expression

23) A statement of the form "expression = expression" is called an A) expression

B) equation

C) average

D) absolute value

Solve the equation.

$$24) - 9x = -45$$

A) 5

B) 36

C) - 36

D) -5

25) n - 7 = 15

A) -8

B) 22

C) -22

D) 8

25)

Write the given integers in order from least to greatest.

A) -|-16|, -|7|, 3^2 , -(-11)

C) -|-16|, -(-11), -|7|, 3^2

B) -|7|, -|-16|, 3^2 , -(-11)

D)
$$-(-11)$$
, 3^2 , $-|7|$, $-|-16|$

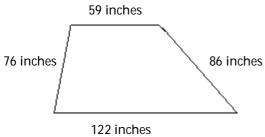
Find the perimeter.

27)

27)

28)

29)



A) 290 in.

B) 324 in.

C) 284 in.

D) 343 in.

Determine the place value of the digit 3 in the whole number.

28) 403,681,295

A) hundred-millions

C) millions

B) thousands

D) hundred-thousands

Write the whole number in expanded form.

29) 96.748

A) 80,000 + 4000 + 700 + 60 + 9

C) 9000 + 600 + 70 + 48

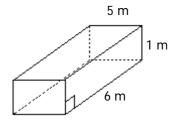
B) 96.748

D) 90,000 + 6000 + 700 + 40 + 8

Find the volume of the solid.

30)





- A) 30 cu m
- B) 90 cu m
- C) 12 cu m
- D) 5 cu m

Decide whether the given number is a solution of the given equation.

- 31) Is 2 a solution of 6m + 4 = 18?
 - A) yes

B) no

31) _____

- 32) Is 19 a solution of 6c + 3 5c = -30 + 14?
 - A) Yes

B) No

32)

Round the whole number to the given place.

- 33) 34,855,359 to the nearest million
 - A) 35,000,000
- B) 34,855,000
- C) 34,000,000
- D) 34,900,000

Evaluate the expression for x = -2, y = 3, z = -4.

- 34) 6 z²
 - A) 48

B) -10

C) 22

- D) 14
- 34) _____

Determine which numbers in the set are solutions to the equation.

- 35) 5x = 15; $\{3, 4, 75\}$
 - A) 4

B) 3

C) 75

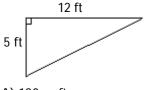
D) none of them

35)

Find the area of the geometric figure.

36)





- A) 120 sq ft
- B) 30 sq ft
- C) 17 sq ft
- D) 60 sq ft

Solve the problem by estimating.

- 37) Andy wants to buy a refrigerator for \$799, a stove for \$559, and a dishwasher for \$349. Round each cost to the nearest hundred to estimate the total cost.
 - A) \$1600
- B) \$1700
- C) \$1800
- D) \$1500

Write the whole number in words.

38) 22,000,674

38) _____

- A) twenty-two hundred million, six hundred seventy-four
- B) twenty-two million, six hundred seventy-four
- C) two million, two thousand, six hundred seventy-four
- D) twenty-two million, six thousand seventy-four

Add the numbers using the number line.

39) -5 + 4

9)

- A) 1

B) -1

C) -9

D) 9

Find the average of the list of numbers.

- 40) 153, 112, 134, 141, 150
 - A) 137
- B) 138
- C) 141
- D) 148
- 40) ____