

# Review Worksheet #8

NAME \_\_\_\_\_

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### Section 1 - Multiple Choice

1) Given the following table, what is the missing value?

$x$	-2	-1	0	1	2	3
$x^3 + 3$	?	4	3	4	7	12

- (a) -1
- (b) 1
- (c) 5
- (d) 7

2) Grandma Riley gave each of her grandchildren the same gift on each of their birthdays. She gave them \$10 on their first birthday, \$20 on their second birthday, \$30 on their third birthday, continuing with the same pattern for future birthdays. On Tim's 7<sup>th</sup> birthday Grandma gave him \$70. What was the total amount Grandma Riley gave to Tim for all of his birthdays including his 7<sup>th</sup>?

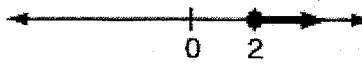
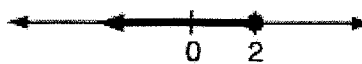
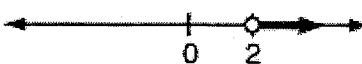

- (a) \$130
- (b) \$210
- (c) \$280
- (d) \$490

3) A worker in a supermarket is building a pyramid of boxes. The bottom row has 12 boxes, the second row has 11, the third row has 10, and so on.

How many more boxes will be in the second row of the pyramid than in the ninth row?

- (a) 5
- (b) 6
- (c) 7
- (d) 8

4) Which graph below represents the inequality  $2 > x$ ?

- (a) 
- (b) 
- (c) 
- (d) 

5) Solve for  $x$ .

$$5x - 3 = 22$$

- (a) 4
- (b) 5
- (c) 6
- (d) 7

8) Which number must be paired with 7 to complete the pattern?

(1, 1) (2, 4) (3, 9) (7, --)

- (a) 7
- (b) 14
- (c) 21
- (d) 49

6) Mark sold some tickets. Wayne sold 4 times as many tickets as Mark. Together they sold 40 tickets. How many tickets did Mark sell?

- (a) 6
- (b) 8
- (c) 10
- (d) 12

7) Pedro made a chart to keep track of how much he charged his neighbors to shovel their driveways. Assuming Pedro continued to charge the same rate, how much money did he charge when 8 inches of snow fell?

Inches of Snow	Amount Charged
1	\$3
4	\$15
6	\$23
8	?

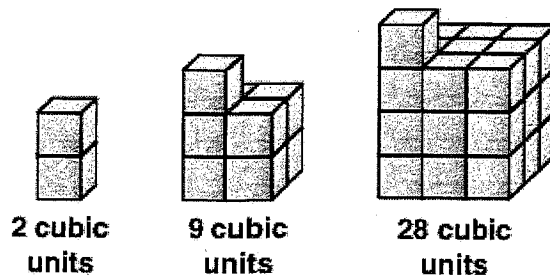
- (a) \$27
- (b) \$31
- (c) \$35
- (d) \$37

9) Based on the table, what are the missing numbers?

$x$	1	5	10	15	22
$y$		38	73	108	

- (a) -3 and 143
- (b) 17 and 143
- (c) 3 and 115
- (d) 10 and 157

10) Look at the pattern of cubes. How many cubic units will be found in the next figure in the sequence?



- (a) 33 cubic units
- (b) 40 cubic units
- (c) 57 cubic units
- (d) 65 cubic units

11) Solve for  $x$ .  $4x - 9 = 23$

- (a) 6
- (b) 7
- (c) 8
- (d) 9

12) Solve for  $x$ .  $7x + 8 = 43$

- (a) 5
- (b) 6
- (c) 7
- (d) 8

13) To isolate the variable, what is the first step to solve the equation  $3x + 4 = 16$ ?

- (a) subtract 4 from both sides
- (b) subtract 16 from both sides
- (c) add 4 to both sides
- (d) add 16 to both sides

14) What is  $n$  if twice  $n$  decreased by 31 is 59?

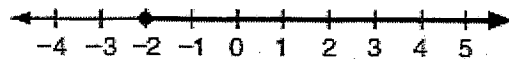
- (a) 90
- (b) 45
- (c) 28
- (d) 14

15) Solve for  $m$ .

$$13 - m = -17$$

- (a) -4
- (b) -17
- (c) 30
- (d) 47

16) Ginger made up a quiz for her friend to use for math practice. The first thing she said was, "Find the inequality that would fit the number line below." Which of the following expressions is the correct answer?



- (a)  $x + 4 \geq 6$
- (b)  $x - 4 \geq 6$
- (c)  $x + 6 \geq 4$
- (d)  $x - 6 \geq 4$

17) Brighton Middle School has a book fair each month. Based on the information in the chart, how many books were probably sold in May?

Month	# Books Sold
January	20
February	22
March	25
April	29
May	?

- (a) 30
- (b) 34
- (c) 36
- (d) 39

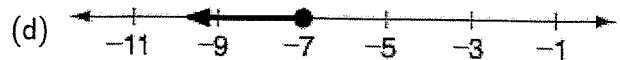
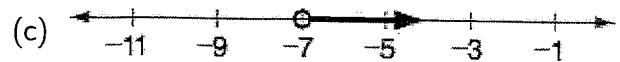
18) Below are Carrie's grades on 4 math quizzes. What would be her approximate grade for her fifth quiz if she continued this trend?

Carrie's Grades on Quizzes

Quiz	Grade
1	60%
2	66%
3	71%
4	77%

- (a) 78
- (b) 82
- (c) 88
- (d) 92

19) Which graph represents " $y$  is less than  $-7$ "?



20) Attendance at the opening game of the local soccer team was 1250. The table shows the attendance for each of the next 4 games. According to the table, what is the best prediction of the attendance for game 6?

**Soccer Attendance**

Game	Attendance
2	1400
3	1550
4	1700
5	1850

- (a) 1900
- (b) 2000
- (c) 2250
- (d) 2500