

Name _____

Date _____



REVIEW PACKET #1

HOW MUCH DO YOU REMEMBER SINCE SEPTEMBER??



FORMULAS

Perimeter of Anything $P =$

Area of Rectangle $A =$

Area of Square $A =$

Area of Parallelogram $A =$

Area of Triangle $A =$

Area of Trapezoid $A =$

Circumference of Circle $C =$

Area of Circle $A =$

Surface Area of Cube $SA = 6s^2$

Surface Area of Rectangular Prism (Box) $SA = 2LW + 2WH + 2LH$

Surface Area of Cylinder $SA = 2\pi r^2 + 2\pi rh$

Volume of Rectangular Prism (Box) $V =$

Volume of Cube $V = s^3$

Volume of Cylinder $V = \pi r^2 h$

Slope $m =$

Line (Slope-intercept form)

$y =$

Point-Slope Form

Pythagorean Theorem

Answer Sheet:

1.) _____

11.) _____

18.) Must Show Work Below:

2.) _____

12.) _____

3.) _____

13.) _____

4.) _____

14.) _____

5.) _____

15.) _____

6.) _____

16.) _____

19.) Must Show Work Below:

7.) _____

17.) _____

8.) _____

9.) _____

10.) _____

1 What is the slope of the line that passes through the points (-6,1) and (4, -4)?

- (1) -2 (3) $-\frac{1}{2}$
(2) 2 (4) $\frac{1}{2}$

2 Two numbers are in the ratio of 3:8. If the total of their sums is 44, what is the larger number?

- (1) 32 (3) 4
(2) 44 (4) 99

3 Solve the following equation for the missing variable: $8m - 3(2m + 5) = 6(m - 4) - 7$

- (1) 2 (3) 12.75
(2) 5.75 (4) 4

4 Which equation represents a line parallel to the line $y = -3x + 2$?

- (1) $y = -3x - 1$ (3) $y = x - 2$
(2) $y = \frac{1}{3}x + 2$ (4) $y = 3x - 1$

5 Men and women at a movie theater are in the ratio of 6:7. If the total at the movie theater is 156, then how many women are at the movie theater?

- (1) 12 (3) 72
(2) 84 (4) 99

6 If $a = 4$, $b = -2$, and $c = 2$, then evaluate the following: $\frac{a^2 - b^2}{c^2}$

- (1) 3 (3) -3
(2) 4.5 (4) 3

7 If $a = -5$, $b = 3$, and $c = -7$, then evaluate the following: $\frac{b^2 - c^2}{a}$

- (1) -3
(2) -10

- (3) 2
(4) 8

8 Which of the following illustrates the commutative property?

- (1) $-9 + (5 + -1) = (-9 + 5) + -1$
(2) $7(k - 4) = 7k - 28$

- (3) $c \bullet a = a \bullet c$
(4) $0 + 16 = 16$

9 What is the y intercept of the following equation: $4y - 5x = 20$

- (1) (4, 0)
(2) (5, 0)

- (3) (0, 4)
(4) (0, 5)

10 Kari bought a shirt for \$20. It was 20% off with a sales tax rate of 8%. Find the final price of the shirt.

- (1) \$61.80
(2) \$25.92

- (3) \$15.25
(4) \$17.28

11 Ray bought a DVD for \$18. It was on sale for 5% off with a sales tax of 8%. What was the final price of the bike?

- (1) \$17.10
(2) \$19.44

- (3) \$18.47
(4) \$17.39

17 A rectangular prism has a length of 21m and a height of 3m. If its volume is 1134m^3 , then what is its width? Formula: $V=LWH$

(1) 47m

(2) 18m

(3) 1110m

(4) 1071m

18 Todd, Ed, and Rusty work at a machine shop. Todd works four less than five times the hours that Ed works and Rusty works two more than three times the hours that Ed works. The three men work a total of 304 hours. How many hours does Ed work?

19 Becky has four more uncles than aunts. She has three times as many cousins as aunts. If a represents the number of Becky's aunts, then write an algebraic expression for her total number of relatives.