

Summer Assignment for Students Going into PreAlgebra 7

Directions:

- 1. Complete the following problems in this packet in the space provided without a calculator. If you need more space, attach your work. Show all work for full credit.**
- 2. These problems should be a good review of the concepts that are necessary for you to know at the start of the course you are entering.**
- 3. Bring this completed packet of problems, including your work, with you to math class on the first day of school. It will be collected and graded.**
- 4. Be sure you understand this material thoroughly and be prepared to take a 30-point quiz on this material on the third day of school.**

1. Simplify the expression

a. $6 + (5 + x)$

b. $12(x + 3)$

2. Write the phrase as an expression:

a. The sum of 28 and $3x$.

b. The difference between $5a$ and b .

c. The quotient of x and y .

d. The product of $2x$ and $4y$.

3. Add or Subtract

a. $\frac{3}{4} + \frac{1}{8}$

b. $\frac{5}{6} - \frac{1}{5}$

c. $6.23 + 0.4$

d. $1\frac{2}{5} + \frac{3}{4}$

e. $4.18 - 1.53$

f. $\frac{7}{9} - \frac{1}{3}$

4. Multiply or Divide

a. $\frac{5}{13} \cdot \frac{4}{5}$

b. $\frac{11}{12} \cdot 6$

c. $\frac{8}{9} \cdot \frac{3}{4}$

d. $1\frac{4}{5} \cdot 3\frac{2}{3}$

e. $\frac{7}{9} \div \frac{21}{18}$

f. $3\frac{5}{6} \div 1\frac{2}{3}$

5. Write the decimal as a fraction in simplest form

a. 0.9

b. 0.64

c. 7.2

6. Write the fraction as a decimal

a. $\frac{7}{10}$

b. $\frac{5}{6}$

c. $\frac{3}{25}$

7. Multiply and Divide

a. $(.87)(21)$

b. 2.7×9.04

c. $4.38 \div 12$

d. $\frac{31.75}{5}$

8. Write the percent as a fraction in simplest form

a. 45%

b. 34%

9. Write the fraction as a percent

a. $\frac{2}{25}$

b. $\frac{3}{8}$

10. Write the decimal as a percent.

a. .52

b. 5.12

11. Find 75% of 80

12. Write a ratio of 2 red crayons to 5 blue crayons

13. Write a unit rate for 18 necklaces made in 3 hours

14. Solve the equations using inverse operations.

a. $m - 7 = 3$

b. $x + \frac{2}{3} = \frac{9}{10}$

c. $a + 5.5 = 17.3$

d. $\frac{x}{10} = 7$

e. $3a = 12$

f. $24 = \frac{4}{6}x$

15. A snowmobile is traveling at a speed of 88 ft per second. Use equivalent ratios/proportions to find the number of seconds, s , it takes for the snowmobile to travel 528 ft.

16. Put in order from least to greatest:

$-2, 0, -10, 24, -382, 1\frac{1}{2}$

17. Plot the following ordered pairs on the coordinate plane:

A (0,3) B (-2,0) C (-2,5) D (3, -2) E (5,7) F (-1, -4)

