

Problems 1-9: True or False: Circle the correct answer

- 1) True or False: The Addition Property of Equality states that for all real numbers a , b , and c , if $a = b$, then $a + c \neq b + c$.
- 2) True or False: In the order of operations the acronym for the order is PEMDAS.
- 3) True or False: You do not need to isolate the variable to solve any equation.
- 4) True or False: When you have variables on both sides of the equal sign in order to solve the equation you need to get the variable on one side of the equal sign.
- 5) True or False: There are 5 steps that we went over to solve word problems.
- 6) True or False: The rate is the same thing as the unit rate.
- 7) True or False: After using the cross product for solving proportions solving the equation is just like what we have been doing.
- 8) True or False: Percentage means out of 100.
- 9) True or False: A literal equation is an equation that has only 1 variable.

Problems 10-27: Solve the equation or proportion

10) $-\frac{v}{7} = -7$

13) $5x - 3 = 7$

11) $-11p = -8$

14) $3(x - 5) = 9$

12) $-8q + 3 = -29$

15) $-3(3r + 4) = -24$

16) $5 - (8v + 5) = -4(1 + 3v)$

17) $3(a - 6) = -5a - (7 + 3a)$

19) Which has the best unit rate?

Store A: \$3 for 12 markers

Store B: \$4 for 20 markers

Store C: \$6 for 40 markers

18) Which has the best unit rate?

McDonald's: 40 fries for \$1.20

Wendy's: 35 fries for \$1.40

Burger King: 65 fries for \$1.30

20) $\frac{n-6}{n-7} = \frac{9}{2}$

$$21) \frac{7}{b+5} = \frac{10}{5}$$

22) 102 is what percentage of 102?

23) What is 13% of 34

$$24) z = b + \frac{m}{a}, \text{ for } a$$

$$25) 4x = -4r + 2d, \text{ for } d$$

26) Daniel completed 180 questions in 9 minutes. How many questions can Daniel complete in one minute?

27) A paper company is delivering 384 cases of paper today. 8 trucks are being loaded with an equal number of cases of paper. How many cases will each truck carry?