

Name \_\_\_\_\_

Date \_\_\_\_\_

### 1.1-1.4 Quiz Study Guide

Solve each using order of operations.

1)  $4 \cdot 3 + \frac{18}{3}$

2)  $\frac{2^3}{4} \cdot 10 + 3$

3)  $\frac{(1+5)^2}{18-3 \cdot 5}$

Evaluate each expression for the given value.

4)  $\frac{12}{y} + (3 + 6)$  for  $y=3$

5)  $3(a + 5) - a^2$  for  $a=3$

Write an expression for each verbal phrase.

6) The difference of 8 and a number ( $a$ )

7) 12 less than a number ( $x$ )

8) 3 times the sum of a number ( $j$ ) and 4

Write an expression for each situation.

9) The amount of change you get back from a store if your total purchase is ( $d$ ) dollars and you gave the cashier \$20.

10) The amount of money each school will get if you share the profit ( $p$ ) from the bake sale equally with 4 schools.

11) The amount to spend at the store if you buy several pens ( $p$ ) for \$0.30 each and one notebook for \$2.50.

Write an inequality for each phrase.

12)  $x$  is at least 14

13)  $b$  is at most 20

14)  $m$  is no more than 10

15)  $h$  is no less than 14

16) 7 is less than 3 times  $p$

17) The quotient of  $n$  and 6 is at least 2

Check whether the given number is a solution of the equation or inequality.

18)  $4x - 6 = 4$  for  $x=2$

19)  $3 + x > 9$  for  $x=7$

20)  $3x + 6 < 12$  for  $x=5$

21)  $4(a - 9) \geq 20$  for  $a=15$

Find the unit rate for each.

22) 5 candy apples for \$7.50

23) 7 miles in two hours