

Name: _____

Date: _____

Extra Practice (1.2 - 1.3)

Evaluate each expression if $x = 12$, $y = 20$, and $z = 4$. (lesson 1.3)

1) $x + y + z$

2) $(y - x) - (y - z)$

3) $\frac{y}{x} + \frac{x}{z}$

4) $x + y \div z$

5) $yz - x$

6) $(3z + x)^2$

7) $4[(y - 4z) + z]$

8) $(6z - 2x)^2$

9) $\frac{2(y - z)}{4(y - x - z)}$

10) $\frac{100}{5y}$

Find the value of each expression. (lesson 1.2)

11) $6(6 \div 2) \cdot 9$

12) $6(6 \div 2 \cdot 9)$

13) $6(6) \div (2 \cdot 9)$

14) $3 + 2 \cdot 4 - 3 \cdot 3 + 6 \cdot 6$

15) $25 + 30 \div 6 \cdot 5$

16) $16 - 49 \div 7 \cdot 2$

17) $2(6 + 2) - 4 \cdot 3$

18) $2[(4 + 5) \cdot 3]$

Translate each phrase into an algebraic expression.

19) two inches shorter than Kathryn's height

20) eight more than the product of a number and four

21) half as many pieces of candy

22) twice as long as a piece of string

23) the quotient of some number and thirteen

24) five times the sum of 3 and some number