

Tuesday, August 7, 2012

TISK Problems

Evaluate each expression for $x = 2$ and $x = 3$.

1. $3x - 1$

2. $4(x + 3)$

3. Subtract: $\frac{6}{7} - \frac{2}{5}$

We will have 3 Mental Math questions today.

Homework Check

20) 4, 8, 12, 16, 20

21) 36, 29, 22, 15, 8

22) 16, 29, 42, 55, 68

23) 137, 119, 101, 83, 65

24) 2, 9, 19, 32, 48

25) a. First difference: 1

b. Second difference: 2

c. Third difference: 6

d. The fourth differences will be constant.

Variables, Expressions, and Equations

- What is a *variable*?

A variable is an unknown or changing value represented by a letter.

Variables, Expressions, and Equations

- What is an *algebraic expression*?

An algebraic expression is a group of numbers, variables, and operations expressing some value.

Variables, Expressions, and Equations

- How do we use algebraic expressions to represent contextual situations?
 - Tiffany starts a business selling homemade bows. She spends \$10 on materials, then sells her bows for \$4 each.
 - How would you represent the amount of profit Tiffany has made as an algebraic expression?

$b = \text{bows sold}$

$$4b - 10$$

Variables, Expressions, and Equations

Andrew has some cheap video games and some expensive video games. If cheap video games cost \$20 and expensive video games cost \$60, find the cost of the following items.

- 15 cheap video games

$$20(15) = 300$$

- c cheap games

$$20c$$

- 7 expensive video games

$$7(60) = 420$$

- f expensive games and 4 cheap games

$$60f + 4(20)$$

- e expensive games

$$60e$$

$$\downarrow$$
$$60f + 80$$

Homework

- p. 16 #31-39

