

MasterMath

Perfect Practice Worksheet

Name _____

Date _____

Writing and Evaluating Expressions 2

1. After Y years your allowance has increased to $5 + 2Y$ dollars.

What is your allowance after Y years

Years	4	5	3	6
Allowance	\$13	15	11	17

2. When your Dad hits the accelerator to pass, his speed (" S ") goes up 2 MPH each second (" x "). Write an expression to determine his speed after x seconds if he starts at 30 MPH.

$$S = 30 + 2x$$

3. Based on #2, above, fill in the blanks in this table:

Seconds	2	5	3	6
Speed	34	40	36	42

4. You have been adding 5 friends (" F ") per month on Facebook. You now have 12 friends. Write an expression to predict how many friends you'll have after X months.

$$F = 12 + 5X$$

5. Fill in the blanks in this table to predict your number of friends in the future.

Number of months	2	5	3	6
Number of friends	22	37	27	42

6. You are now 54" tall. You have been growing $\frac{1}{4}$ " per month. Write an expression to predict how tall (H) you will be after x months.

$$H = 54 + \frac{1}{4}x$$

7. Joe has a lemonade stand. He sell small glasses for \$1, and large glasses for \$2. Write an expression to determine how much money Joe makes if he sells 8 small and 5 large lemonades.

$$(8 \cdot 1) + (5 \cdot 2) = 18$$

Then write an expression to determine how much Joe makes (z) for X small and Y large lemonades.

$$x + 2y = z$$

8. A family goes to the movies, where adult tickets are \$9, and student tickets are \$5.

a. Find the cost if there are 2 adults and 3 students.

\$33

b.

The cost for 1 adult and 3 kids is \$24. If the number of adults doubles, and the number of kids stays the same, will the cost double?

no