

**Homework**

1. a. Write the first five terms of a numerical pattern that begins with 2 and then adds 3.

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- b. Write an expression for the sixth term of the pattern.

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- c. Write the sixth term.

\_\_\_\_\_

2. a. Write the first five terms of a pattern that begins with 5, and then adds 5.

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- b. Write the first five terms of a pattern that begins with 20, and then adds 20.

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- c. Circle the corresponding pairs of terms in the patterns. How does the top term compare to the bottom term?

\_\_\_\_\_

- d. How does the bottom term compare to the top term?

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Complete the table and use it for Problems 3 and 4.

**Cost of Music Downloads**

<b>Number of Songs</b>	1	2	3	4	5
<b>Cost in Dollars</b>	\$0.99	\$1.98			

3. Describe a relationship shared by the corresponding terms.

\_\_\_\_\_

\_\_\_\_\_

4. What would be the cost of downloading 6 songs?

\_\_\_\_\_

# Remembering

Solve.

*Show your work.*

1. Manny has 40 ounces of butter that he is cutting into 1.25-ounce slices. How many slices will he have?

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2. Tracy is running in a 5.25-kilometer race on Saturday. A marathon is approximately 42 kilometers. How many times as long as Tracy's race is a marathon?

\_\_\_\_\_

**Write an equation to solve the problem. Use mental math or estimation to show that your answer is reasonable.**

3. Each Saturday morning, Janie works 5 hours and earns \$35.75. How much does Janie earn for each hour she works?

Equation: \_\_\_\_\_

Estimate: \_\_\_\_\_

\_\_\_\_\_

**Evaluate the expression.**

4.  $120 \div (t \cdot 3)$  for  $t = 4$

5.  $m \cdot 2\frac{2}{3}$  for  $m = 5$

6.  $4 \cdot (2 + c)$  for  $c = 8$

7.  $7\frac{1}{2} - p$  for  $p = \frac{5}{6}$

8.  $60 - z \div 2$  for  $z = 20$

9.  $x \div 0.9$  for  $x = 3.6$

- 10. Stretch Your Thinking** Create your own numerical pattern.

Write the starting number, the rule, and the first 5 terms in the pattern. Then write an expression for the tenth term.

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