

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

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

- c. Write the sixth term.

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

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

- 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?

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

Cost of Music Downloads

Number of Songs	1	2	3	4	5
Cost in Dollars	\$0.99	\$1.98			

- 3 Describe a relationship shared by the corresponding terms.

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

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?

- 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.
