

Chapter 10 Test

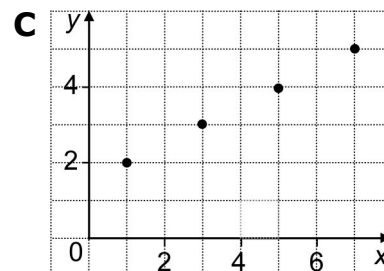
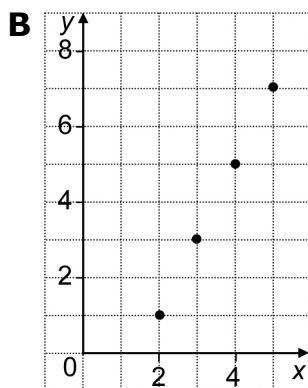
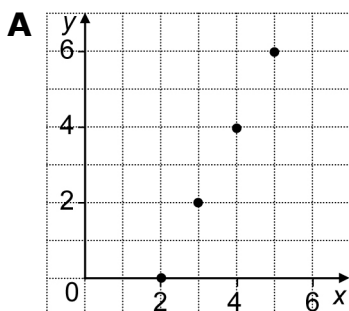
Match each statement on the left with a term on the right.

- | | |
|---|--------------------------------|
| 1. _____ x in the expression $4x + 7$ | A table of values |
| 2. _____ 2 in the expression $2a$ | B expression |
| 3. _____ $3p - 14$ is an example of one | C constant |
| 4. _____ 15 in the expression $m + 15$ | D numerical coefficient |
| | E variable |

For #5 to #8, circle the best answer.

5. Which one of the following is equal to $\frac{7}{9}$?
- A** 0.7 **B** 0.797979 **C** 0.0777... **D** 0.777...
6. Determine the value of $4x$ when $x = 8$.
- A** 2 **B** 12 **C** 32 **D** 48
7. Using the relationship $y = 2x - 5$, which of the ordered pairs is not correct?
- A** (3, 1) **B** (4, 3) **C** (5, 5) **D** (6, 6)
8. Which graph represents the linear relation shown in the table of values?

x	2	3	4	5
y	1	3	5	7



Short Answer

9. Look at the following pattern: $\frac{1}{3} = 0.\bar{3}$, $\frac{2}{3} = 0.\bar{6}$, $\frac{3}{3} = 1$, $\frac{4}{3} = 1.\bar{3}$, ...

What is $\frac{7}{3}$ as a decimal number? _____

Name: _____

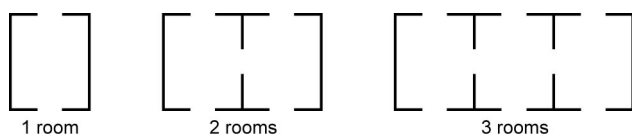
Date: _____

BLM 10-13
(continued)

10. a) The Pizza Shack charges \$8 for each pizza. No matter how many pizzas you order, they charge \$5 for delivery. Using p for the number of pizzas, what is an expression for the cost to have pizzas delivered to your home?

b) What is the cost of five pizzas? Write your answer as a sentence.

11. The diagram shows that a cabin with one room has two doors, a cabin with two rooms has five doors, and a cabin with three rooms has eight doors.



a) If the pattern continues, how many doors does a cabin with five rooms have? Write your answer as a sentence.

b) What is an expression for the pattern? Tell what your variable represents.

Extended Response

- 12. a)** For the linear relationship $y = 2x - 1$ complete the following table of values.
- b)** Graph the values in the table onto the coordinate grid provided.
- c)** Describe a pattern in real life that the linear relation $y = 2x - 1$ could represent. Make sure you explain what both x and y represent.

x	y
2	
3	
4	
5	

