

Chapter 10 BLM Answers

BLM 10-2 Patterns and Expressions

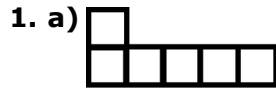


Figure 4

b)

Figure Number	1	2	3	4	5
Number of Squares	3	4	5	6	7

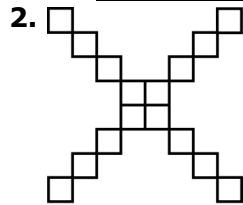


Figure 4

Answers may vary. For example: Each figure has four more squares than the previous figure.

3.

Figure Number	1	2	3	4
Number of People	4	7	10	13

4. a) 11
 b) Multiply the figure number by 3 and subtract 1 to get the number of triangles.
 5. a) T b) (3, 0) c) P and R
 d) PRT, RST, RSU, QSU, and QST

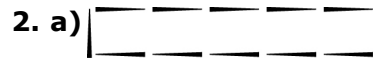
BLM 10-4 Section 10.1 Extra Practice

1. a) 15, $0.\overline{15}$ b) 621, $0.\overline{621}$
 c) 007, $0.\overline{007}$ d) 842, $0.\overline{842}$
 2. a) $0.1350135013501350\dots$, $0.\overline{1350}$
 b) $0.02252252252252\dots$, $0.\overline{0225}$
 c) $0.76623376623376623\dots$, $0.\overline{766233}$
 d) $0.285714285714285714\dots$, $0.\overline{285714}$
 3. a) $0.\overline{01}$ b) $0.\overline{02}$ c) $0.\overline{03}$
 4. a) Add $0.\overline{01}$. b) Add $0.\overline{01}$.
 c) 0.04 , 0.21

BLM 10-7 Section 10.2 Extra Practice

1.

Expression	Variable	Numerical Coefficient	Constant
a) $4x + 9$	x	4	9
b) $3a - 7$	a	3	7
c) $12 + 2b$	b	2	12
d) $w + 10$	w		10
e) $6y$	y	6	



Rectangle 4

b)

Rectangle	Perimeter (P)
1	6
2	8
3	10
4	12

- c) 24
 d) $2r + 4$, where r is the rectangle number

BLM 10-9 Section 10.3 Extra Practice

1. a) $3c + 3$ b) $5c - 4$
 c) $7c + 1 + 1$ or $7c + 2$
 2. a) $4(3) + 3 = 12 + 3 = 15$
 b) $4(5) + 3 = 20 + 3 = 23$
 c) $4(10) + 3 = 40 + 3 = 43$
 3. a) $7 + 3(7) = 7 + 21 = 28$
 b) $\frac{40}{10} = 4$
 c) $10 - 4(0) = 10 - 0 = 10$
 d) $\frac{24}{3} - 6 = 8 - 6 = 2$

4. a)

Number of Rows	Number of Chairs
4	40
5	50

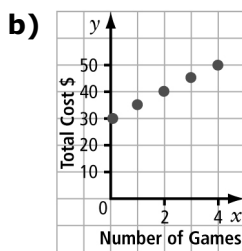
- b) 90 c) $10r$
 d) There are the same number of chairs in each row.

BLM 10-11 Section 10.4 Extra Practice

1. a) The y -coordinate is the x -coordinate divided by 10. $(x, \frac{x}{10})$ or $y = \frac{x}{10}$
 b) The y -coordinate is the x -coordinate multiplied by 2 plus 1. $(x, 2x + 1)$ or $y = 2x + 1$

2.

Number of Games (g)	Total Cost (C) in Dollars
2	40
3	45
4	50



c) $C = 5g + 30$

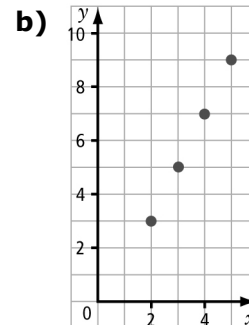
BLM 10-13 Chapter 10 Test

- E variable
- D numerical coefficient
- B expression
- C constant
- D 6. C 7. D 8. B 9. $2.\bar{3}$

10. a) $8p + 5$
 b) The cost of five pizzas is \$45.
 11. a) The cabin has 14 doors.
 b) $3r - 1$ where r is the number of rooms

12. a)

x	y
2	3
3	5
4	7
5	9



- c) Josie and Sam are each buying a bottle of pop. They have a coupon that takes \$1 off of the total cost. The cost of each bottle of pop is x . The total amount they have to pay is y .