Name: _____ Date: _____

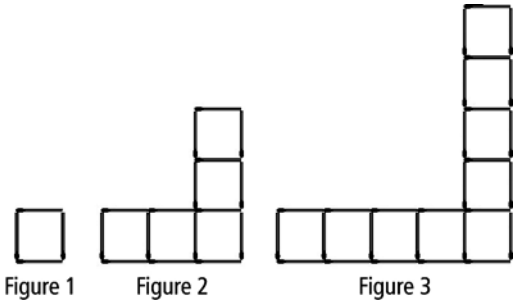
BLM 6–6

Chapter 6 Test

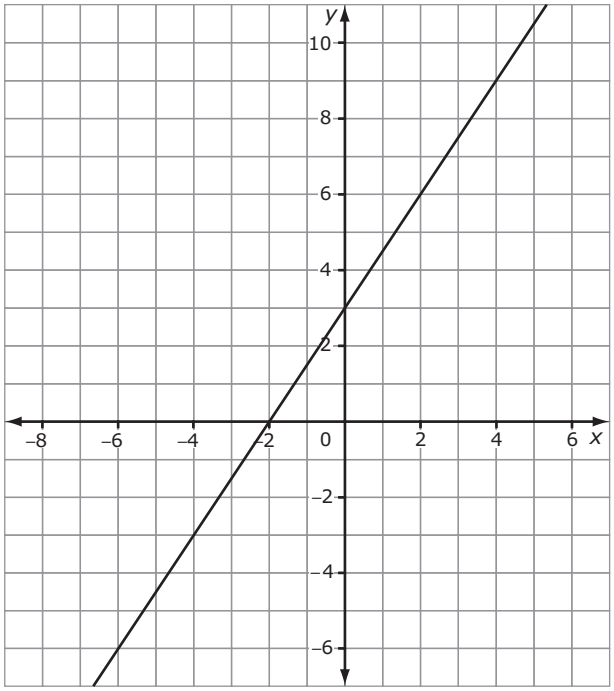
For #1 and #2, circle the best answer.

1. Which equation best shows the relationship between the number of matches, m, and the figure number, f ?

A $m = f + 3$ **B** $m = f + 12$
C $m = 4f - 3$ **D** $m = 12f - 8$



2. Which table of values best represents this graph of a linear relation?



A

x	y
–2	0
0	3
2	6
4	9

B

x	y
–2	0
0	3
2	–6
4	–9

C

x	y
–2	0
0	3
2	9
4	27

D

x	y
–2	0
0	3
2	–9
4	–27

Complete the statements in #3 and #4. Use the graph in #2.

3. When $x = 4$, the approximate y-coordinate is _____.

4. When $y = -6$, the approximate x-coordinate is _____.

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Short Answer

5. The yearbook committee is pricing the yearbook.
The printing company charges a flat fee of $7 per book plus $0.03 per page.
Write a linear equation to represent the relationship between the number of pages in the yearbook and its cost.

Let p = the number of pages

Let c = the cost

Linear Expression: _____

6. Amanda works as a waitress.
She earns $50 a day plus 75% of the tips her customers leave.

Change 75% to a decimal.

a) Write a linear equation that represents the relationship between earnings and tips.

Let _____ = total earnings

Let _____ = tips ($)

Equation: _____

b) The table of values represents Amanda's earnings on different days.
Use one of the day's earnings and check your equation.

Left Side	Right Side

Tips ($)	Total Earnings ($)
20.00	65.00
50.00	87.50
100.00	125.00

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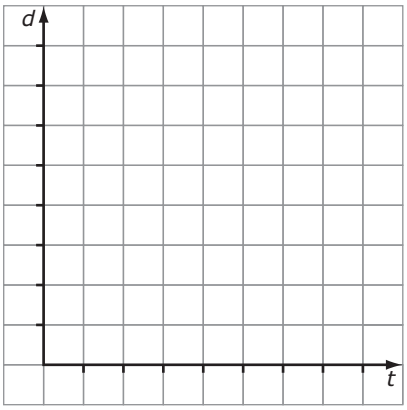
BLM 6–6
(continued)

7. Alex runs at an average speed of 100 m/min. The equation relating distance in metres, d, and time in minutes, t, is $d = 100t$.

a) Complete the table of values.

Time, t	Distance, d
0	
10	
20	
30	
40	
50	

b) Graph the linear relation.

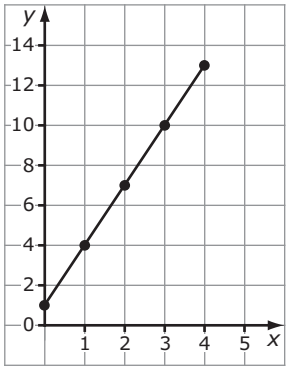


c) Use the graph to estimate how long it takes Alex to run 3.5 km.

1 km = 1000 m

8. a) Complete the table of values.

x	y



b) Write the linear relation this graph represents. _____

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