Name Answer Key

Module 10 • Form A
QUIZ REVIEW

Quiz is TUES Mar 29

1 The Math Club had a car wash to raise money for a competition. The members charged $10 for each car they washed. What is the independent variable in this relationship?

- ● the number of cars washed
- Ⓑ the total amount of money earned
- Ⓒ the amount of money charged per car
- Ⓓ the number of members who helped out

Total earned = 10 × (# cars washed)

2 The table shows the number of points Malik and Alexia scored while playing a video game together.

Video Game Scores

Malik's Score, *m*	Alexia's Score, *a*
60	90
70	100
80	110

+30 +30 +30

How do you get from "m" to "a"?

Which equation relates Alexia's score, *a*, to Malik's score, *m*?

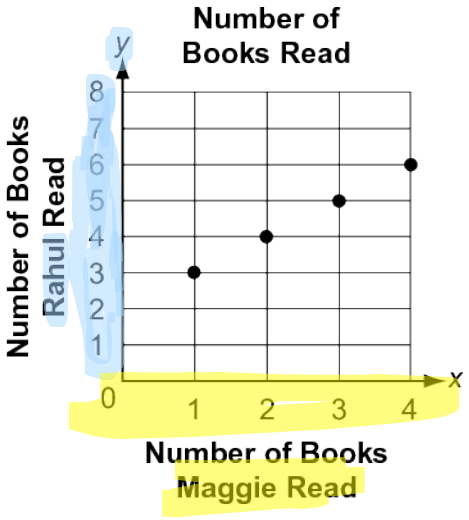
- Ⓐ $a = 0.5m$
- Ⓒ $a = m + 10$
- Ⓑ $a = 1.5m$
- ● $a = m + 30$

3 Sophia is paid $12 per hour to babysit. Which equation represents how much money Sophia earns, *d*, when she babysits for *h* hours?

- Ⓐ $h = 12d$
- ● $d = 12h$
- Ⓑ $h = d + 12$
- Ⓓ $d = h + 12$

dollars earned = 12 times (# hours worked)

4 The graph shows the number of books Rahul read, *y*, compared with the number of books Maggie read, *x*, over the summer.



x	y
+2	
1	3
2	4
3	5
4	6

Which equation represents the relationship between the number of books read by Rahul and Maggie?

- ● $y = x + 2$
- Ⓒ $y = 3x$
- Ⓑ $y = x + 1$
- Ⓓ $y = 2x$

How many books did Rahul read if Maggie read 10 books? **(show work)**

$y = (10) + 2$

$y = 12$

Rahul read 12 books

How many books did Maggie read if Rahul read 20 books? **(Show work)**

$20 = x + 2$

$-2 \quad -2$

$18 = x$

Maggie read 18 books

Name _____

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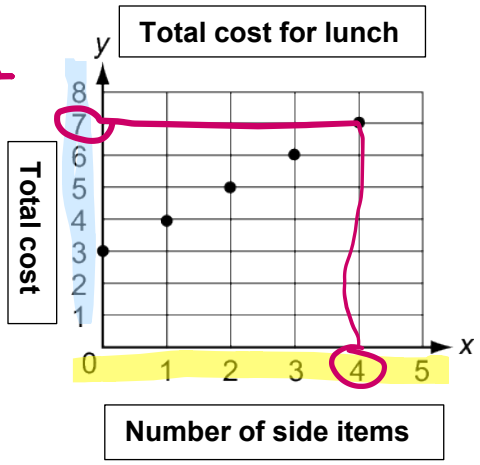
5 A sandwich costs $3. The total cost for lunch depends on how many side items you choose. Write an equation to represent the relationship shown in the graph.

x	y
0	3
1	4
2	5
3	6
4	7



$y = x + 3$

6 Write an equation to represent the relationship shown in the table.

x	6	7	8	9
y	42	49	56	63

×7

How do we get from x to y?

$y = 7x$

$y = 7 \cdot x$
$y = 7(x)$

7 Each day after school, Chelsey runs 2.8 miles farther than Kyle.

Part A

Write an equation that represents the number of miles Chelsey runs, *c*, compared with Kyle, *k*.

$c = k + 2.8$

Part B

If Kyle runs 4 miles, how many miles does Chelsey run?

$c = (4) + 2.8$

$c = 6.8$