

Corrective Assignment

In the following tables y is proportional to x . Write an equation that relates y to x .

1.

x	y
5	10
6	12
9	18
12	24

2.

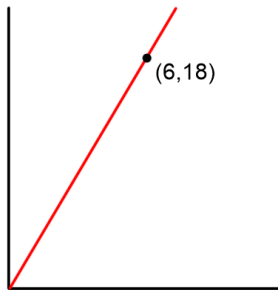
x	y
12	4
9	3
15	6
21	7

3.

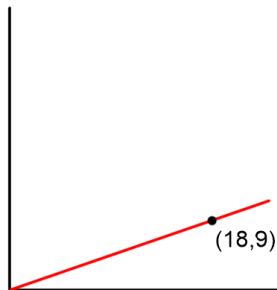
x	0	4	8	12
y	0	20	40	60

Use the graph to write an equation that relates y to x .

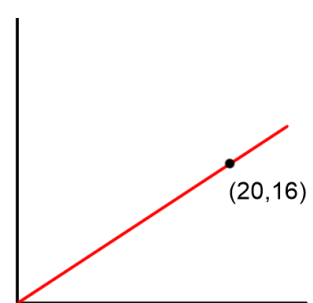
4.



5.



6.



Write an equation that models the relationship.

7. Mr Kelly gets 12 new followers on Insta every 3 days.

8. Mr Brust bakes 18 cookies every 2 hours.

9. Cereal cost 12 dollars for 5 boxes.

State the constant of proportionality (unit rate) for each equation.

10. $y = 2.75x$

$k = \underline{\hspace{2cm}}$

11. $y = \frac{1}{3}x$

$k = \underline{\hspace{2cm}}$

12. $h = 4t$

$k = \underline{\hspace{2cm}}$

13. The table shows the cost to make a bowl of soup. The cost is proportional to the number of bowls made.

Bowls of Soup Made (#)	2	5	6	9
Cost (\$)	3	7.5	9	13.5

Fill in the blank to create an equation that models the relationship between headphones made and cost.

$$c = \underline{\hspace{1cm}} n$$

↑
↑
 cost number of bowls of soup made

14. The table shows the cost to make a hat. The cost is proportional to the number of hats made.

Hats Made (#)	3	4	8	12
Cost (\$)	18	24	48	72

Fill in the blank to create an equation that models the relationship between headphones made and cost.

$$c = \underline{\hspace{1cm}} n$$

↑
↑
 cost number of hats made

ANSWERS TO 1.4 CORRECTIVE ASSIGNMENT

1. $y = 2x$	2. $y = \frac{1}{3}x$	3. $y = 5x$
4. $y = 3x$	5. $y = \frac{1}{2}x$ or $y = 0.5x$	6. $y = \frac{4}{5}x$ or $y = 0.8x$
7. $y = 4x$ (followers per day) or $y = \frac{1}{4}x$ (days per follower)	8. $y = 9x$ (cookies per hour) or $y = \frac{1}{9}x$ (hours per cookie)	9. $y = \frac{12}{5}x$ (dollars per box) or $y = \frac{5}{12}x$ (boxes per dollar)
10. $k = 2.75$	11. $k = \frac{1}{3}$	12. $k = 4$
13. $c = 1.5n$	14. $c = 6n$	