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Stuck? Scan
for the anchor
chart

Finding the Constant of Proportionality

Name _____ Date _____ Correct _____ / 9

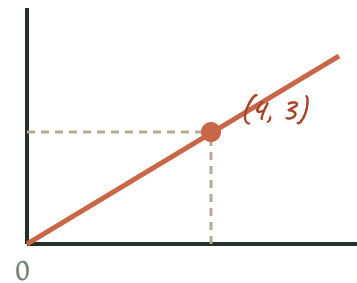
1 Read k Out - k is the amount for exactly one x . No table below shows $x = 1$: divide to find k .

1. From the table:

x	4	6	10
y	10	15	25

$k =$ _____

2. From the graph:



$k =$ _____

3. From the equation:

$$y = 0.35x$$

4. From words: a printer prints **90 pages every 2 minutes**.



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Finding the Constant of Proportionality

2 Write k In - now k is given. Build the representation around it.

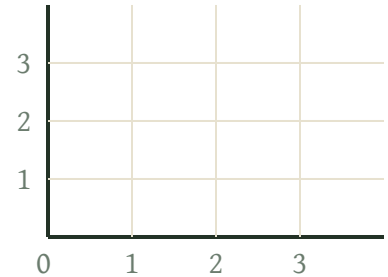
5. $k = 4$. Complete the table.

x	3	5	9
y			

6. $k = 2/3$. Write the equation.

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

7. $k = 1.5$. Draw the line, then mark the point for $x = 2$.



3 Say What k Means - write what k means with its units, like \$2.50 per pound.

8. Three equal bags weigh 12 kg in all.

?	?	?	= 12 kg
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A large rectangular area with a dashed border, filled with a grid of small dots for writing.

$k = \underline{\hspace{2cm}}$ kg per bag, so $y = \underline{\hspace{2cm}}$

9. $y = 0.35x$ gives the cost y , in dollars, of x ounces of candy. Finish the sentence.

A large rectangular area with a dashed border, filled with a grid of small dots for writing.

One ounce costs



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Answer Key

Finding the Constant of Proportionality

1 Read k Out

1. From the table:

$$10 \div 4 = 15 \div 6 = 25 \div 10 = 2.5$$

$$k = \underline{2.5}$$

2. From the graph:

3 up for every 4 across. Less than 1 is fine

$$k = \underline{3/4}$$

3. From the equation:

k is the number multiplying x

$$k = \underline{0.35}$$

4. From words: a printer prints **90 pages every 2 minutes.**

$$90 \div 2 = 45, \text{ for exactly ONE minute}$$

$$k = \underline{45} \text{ pages per minute}$$



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Answer Key

2 Write k In

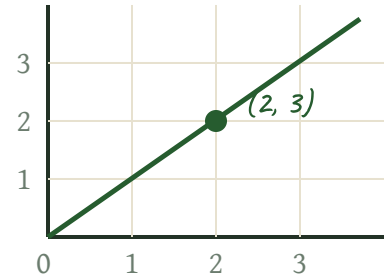
5. $k = 4$. Complete the table.

x	3	5	9
y	12	20	36

6. $k = 2/3$. Write the equation.

$$y = \frac{(2/3)}{x}$$

7. $k = 1.5$. Draw the line, then mark $x = 2$.



3 Say What k Means

8. Three equal bags weigh 12 kg in all.

$$\boxed{4} + 4 + 4 = 12 \text{ kg}$$

$$12 \div 3 = 4 \text{ for one bag}$$

$$k = \underline{4} \text{ kg per bag, so } y = \underline{4x}$$

9. $y = 0.35x$ gives the cost y , in dollars, of x ounces of candy. Finish the sentence.

$$k = 0.35 \text{ dollars per one ounce}$$

One ounce costs \$0.35 (35 cents)