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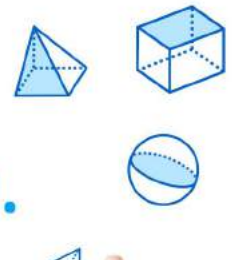

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TWO STEP ALGEBRA EQUATIONS WORKSHEETS

1) Solve the equation $4.2x + 14.9 = 2.3$.

2) What value of k satisfies the equation $\frac{k+5}{\left(\frac{1}{4}\right)} = -5$?

3) Solve the equation for v.

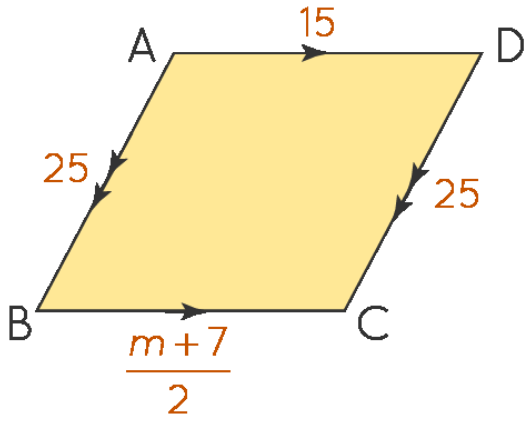
$\frac{v}{8} + \frac{5}{6} = -2\frac{5}{8}$

4) p and q are connected by the equation $5p - 6q = 16$. If $q = \frac{3}{7}$, find the value of p.

5) If $x = -1$ and $2x + 3y = 8$, find the value of y.

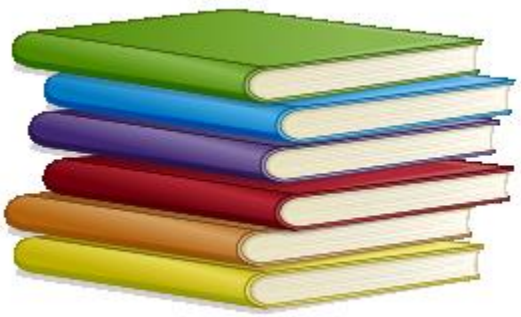
6) The length of a fridge is 3 units more than twice its width. If the length of the fridge is 13 units, then find its width.

7) Find the value of m using the following parallelogram.



8) How old is Michael if 4 times of his age reduced by 750 is -602?

9) Jonathan has $95 and he bought 8 notebooks (each of the same cost). After buying the notebooks, he has $9 left. Then what is the cost of each notebook?



10) On Monday, Emma bought some CD boxes, each with 5 CDs inside it. On Wednesday, she gave 12 CDs to her friend and now she has 88 CDs left. Then how many CD

boxes did she buy initially?

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- Barbara Cabrera

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ANSWERS

1)	x = -3	
2)	$k = \frac{-25}{4}$	
3)	$v = \frac{-83}{3}$	
4)	$p = \frac{26}{7}$	
5)	$y = \frac{10}{3}$	
6)	5 units	
7)	m = 23	
8)	37 years	
9)	$10.75	
10)	20 CD boxes	

FUN FACT

1. To solve a two-step equation, we always apply two operations.
2. The two operations can be adding a number on both sides, subtracting a number from both sides, multiplying by a number on both sides, (or) dividing both sides by a number.
3. To solve a two-step equation, we always apply the opposite operations. Addition and subtraction are the opposite operations of each other, whereas multiplication and division are the opposite operations of each other.