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TWO STEP ALGEBRA EQUATIONS WORKSHEETS

1) What value of m satisfies the equation $-8+2m=6m$?

2) What value of k satisfies the equation $\frac{k}{7} - \frac{8}{11} = -\frac{3}{2}$?

3) Solve the equation for h .

$$\frac{-12+h}{5} = 12h$$

4) Solve the equation for y .

$$2\frac{1}{2} - \frac{3}{4}y = \frac{6}{5}$$

5) A book has 295 pages. Amelia had already read 35 pages. She is now able to spend only 26 days to read the complete book. Then how many pages that she has to read on each of the 26 days if we assume that she reads equal number of pages on each day?



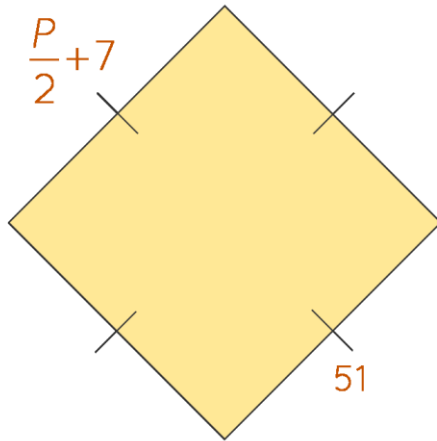
6) Convert the following statement into an equation and solve it in two steps:

“Subtracting 5 from three-fourth of z results in 27.”

- 7) David has brought some apples. After a week, half of them were spoiled and he bought 7 more. If he currently has 27 apples, how many apples did he bring at the beginning?



- 8) Solve for p using the following rhombus.



- 9) The sum of 3 consecutive integers is 72. Find the largest integer among these 3 integers?

- 10) If $2m = 7 - m$, and $12 = -\frac{3}{4}\left(n - \frac{1}{4}\right)$, then find the value of mn .

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$m = -2$
2)	$k = \frac{-119}{22}$
3)	$h = \frac{-12}{59}$
4)	$y = \frac{26}{15}$
5)	10 pages
6)	$z = \frac{128}{3}$ (or) $42\frac{2}{3}$
7)	40 apples
8)	$p = 88$
9)	25
10)	$-\frac{147}{4}$

FUN FACT

1. Two-step equations can be solved using two steps (i.e., applying two operations on both sides).
2. 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.
3. Dividing both sides by $\frac{a}{b}$ is the same as multiplying both sides by $\frac{b}{a}$.

