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# ONE AND TWO STEP EQUATIONS WORKSHEETS

1) Solve for  $x$ :  $x + 2.5 = 3.1$ .

2) Amelia is thinking how to translate the following verbal statement into an algebraic equation and then solve it

“Difference of  $x$  and 5 gives 7”



3) Find the equation in which  $z = 8$

a)  $5z = -40$

b)  $-4z = 32$

c)  $-5z = 40$

d)  $4z = 32$

4) Zack has 75 dollars in her bank account. After going to the hair salon, he is left with 53 dollars. What was the amount he spent at the salon?

5) A carpenter cuts a pipe originally measuring 30 inches to a smaller piece measuring 13.8 inches. How many inches was the pipe shortened by?

6) Solve the equation for  $x$ .  
 $2x+10 = 75$

7) Solve the equation for  $v$ .

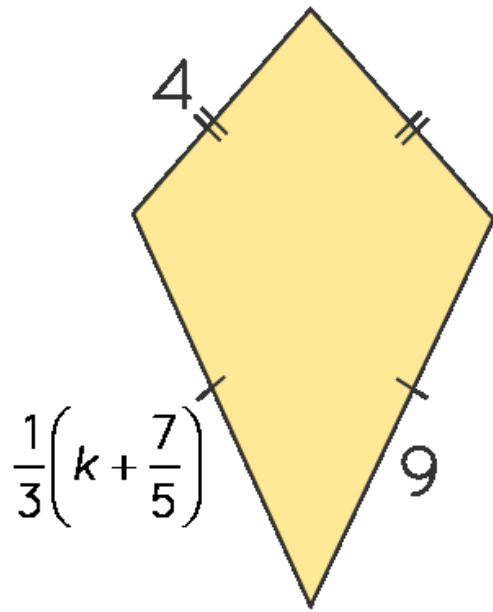
$$\frac{v}{8} + \frac{5}{6} = -2\frac{5}{8}$$

8) 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?



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

10) Find the value of  $k$  using the following kite.



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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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."

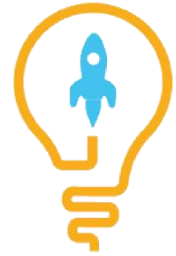
- Kirk Riley

"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)	0.6
2)	$x - 5 = 7$ ; $x = 12$
3)	Option d)
4)	\$22
5)	16.2 inches
6)	$x = 32.5$
7)	$v = \frac{-83}{3}$
8)	10 pages
9)	$p = \frac{26}{7}$
10)	$k = \frac{128}{5}$ (or) $25\frac{3}{5}$

## FUN FACT

1. To solve an 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.
2. The 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.

