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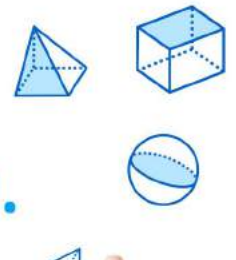

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TWO STEP ALGEBRA EQUATIONS WORKSHEETS

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

2) James decides to collect $100 for a charity and he starts selling pens for the same. He earns $1.50 per pen. He also receives a one time donation of $40 from a good hearted person. Then how many pens he has to sell to collect the decided amount?

3) If you multiply me by -7 and subtract 16, you will get 25. Then who am I?

4) Solve the equation for j.

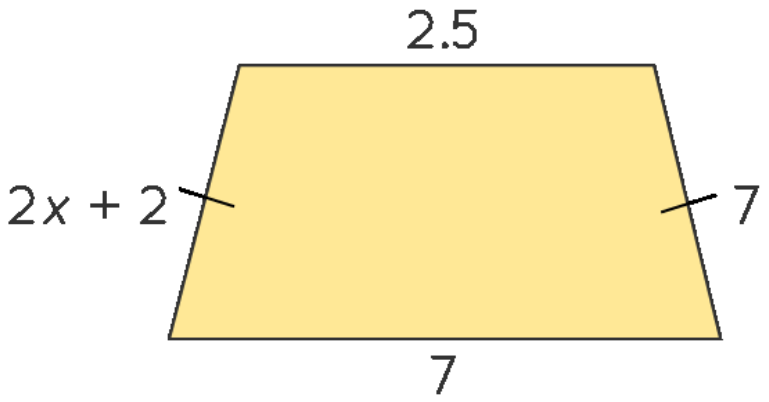
$$\frac{4}{7} = \frac{2}{7}\left(j + \frac{7}{8}\right)$$

5) Mark paid a rent of $42 at a local market where it costs $15 to rent a stand and $3 per hour to stay there. Then for how many hours did Mark stay at the market?

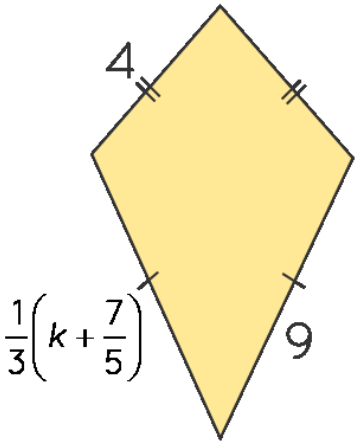
6) Convert the following statement into an equation and solve it in two steps:
"Adding 3 to one-third of m results in 81."

7) Mia's father is 70 years old. He is 10 years older than 2 times Mia's age. Then how old is Mia?

8) Solve for x using the following isosceles trapezoid.



9) Find the value of k using the following kite.



10) If $\frac{1}{3}x = \frac{2}{5} - x$ and $-12 = -\frac{1}{3}(y+3)$, then find the value of x - y.

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- 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)	x = 32.5
2)	40 pens
3)	$\frac{-41}{7}$
4)	$j = \frac{9}{8}$
5)	9 hours
6)	m = 234
7)	30 years
8)	x = 2.5
9)	$k = \frac{128}{5}$ (or) $25\frac{3}{5}$
10)	$-\frac{327}{10}$ (or) $-32\frac{7}{10}$

FUN FACT

1. Two-step equations are equations that can be solved using two steps.

2. In two step equations, we apply two operations on both sides of the given equation to solve it for the variable.

3. Dividing both sides by $\frac{a}{b}$ is same as multiplying both sides by $\frac{b}{a}$.