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Two-Step Equations Worksheets Grade 7

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. The width of a tablet is 8 units less than thrice its length. If the width of the tablet is 15 units, then find its length.



4. Solve the equation for t .

$$-7 + \frac{t}{-4} = 12$$

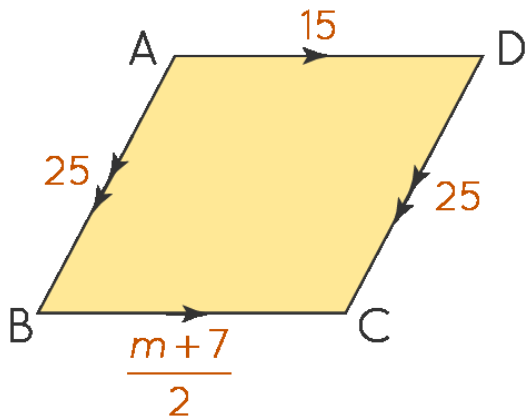
5. Mark paid a rent of \$42 at a local market where it costs \$15 to rent a stand and \$3 per hour to stay there. Then for how many hours did Mark stay at the market?



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. 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. 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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- 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) $-119/22$	3) 7
4) $t = -76$	5) 9 hours	6) $m = 234$
7) $M = 23$	8) 37 years	9) 25
10) $-147/4$		

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 a/b is same as multiplying both sides by b/a .

