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Two-Step Equations Worksheets Grade 7

1. Solve the equation $7x + 3 = 17$.
2. If you multiply me by -3 and add 27 , you will get 18 . Then who am I?



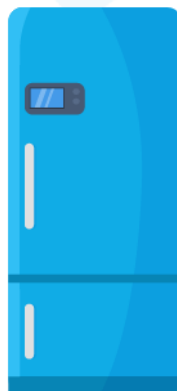
3. Solve the equation for h .

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

4. Solve the equation for y .

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

5. 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



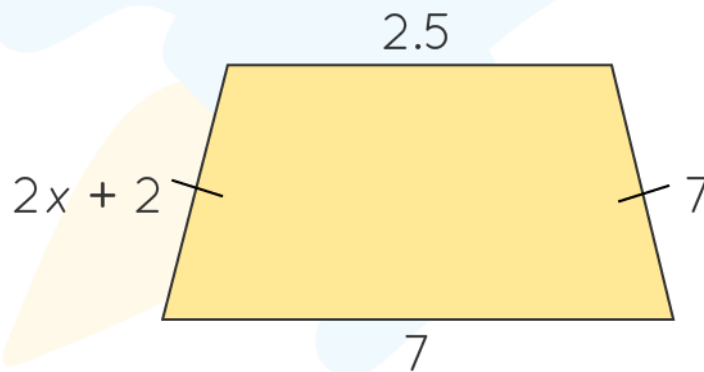
7. Mia's father is 70 years old. He is 10 years older than 2 times Mia's age. Then how old is Mia?



8. Convert the following statement into an equation and solve it in two steps:

“three-fourth of a number x minus 3 is equal to 5.”

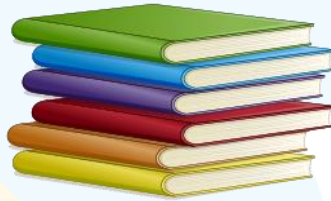
9. Solve for x using the following isosceles trapezoid.



10. 289 students went on a field trip. 8 buses were filled (with an equal number of students) and 9 students went by a car. Then how many students were there in each bus?



11. 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?



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- Barbara Cabrera

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ANSWERS

1) $X = 2$	2) 3	3) $h = -12/59$
4) $y = 26/15$	5) $x = 10/3$	6) 5 units
7) 30 years.	8) $32/3$	9) $x = 2.5$
10) 35 students	11) \$10.75	

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 .

