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Two-Step Equations Worksheets Grade 7

1. Solve the equation $4.2x + 14.9 = 2.3$.

$$\frac{k+5}{\left(\frac{1}{4}\right)} = -5$$

2. What value of k satisfies the equation $\left(\frac{1}{4}\right) = -5$?

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. Solve the equation for f .

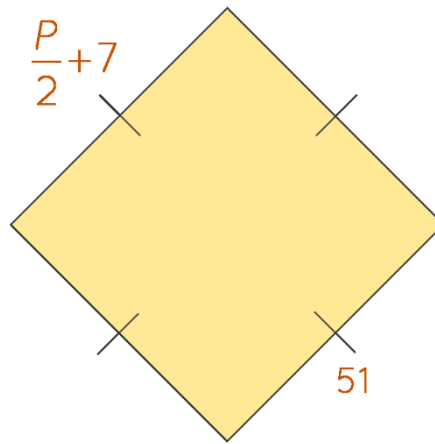
$$3\frac{3}{2} - \frac{1}{2}f = \frac{4}{5}$$

6. If $m = \frac{5}{4}$ and $-12m + 5n = 0$, find the value of n .

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?



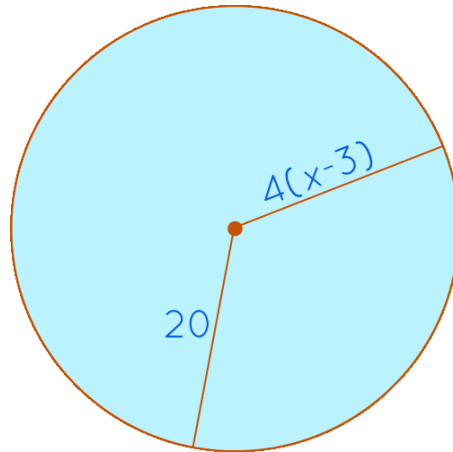
8. Solve for p using the following rhombus.



9. A bike rental agency gives bikes on rent for \$21 plus \$7 per hour. If Jim pays bike rent of \$84, then how many hours did he take the bike for rent?



10. Find the value of x using the following circle.



11. On Monday, Emma bought some CD boxes, each with 5 CDs inside it. On Wednesday, she gave 12 CDs to her friend and now she has 88 CDs left. Then how many CD boxes did she buy initially?



12. If $2x = \frac{3}{4} - x$, and $-10 = -\frac{1}{5}\left(y + \frac{5}{6}\right)$, then find the value of xy .

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ANSWERS

1) $x = -3$	2) $k = -25/4$	3) $-41/7$
4) $j = 9/8$	5) $f = 37/5$	6) $n = 3$
7) 40 apples	8) $p = 88$	9) 9 hours
10) $x = 8$	11) 20 cd boxes	12) $295/24$

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 .

