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Two-Step Equations Worksheets Grade 7

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. Solve the equation for v.

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

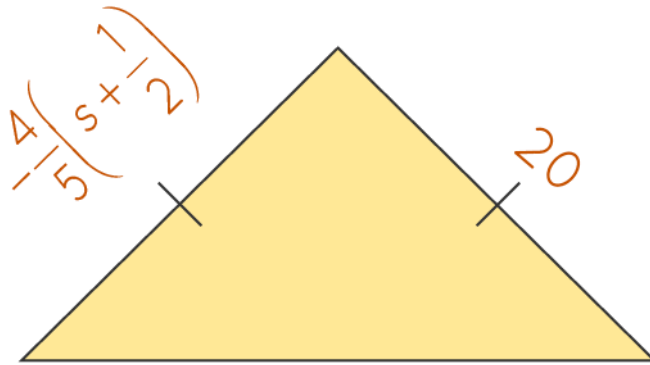
4. p and q are connected by the equation $5p - 6q = 16$. If $q = \frac{3}{7}$, find the value of p.

5. 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?



6. Convert the following statement into an equation and solve it in two steps:
“Subtracting 5 from three-fourth of z results in 27.”

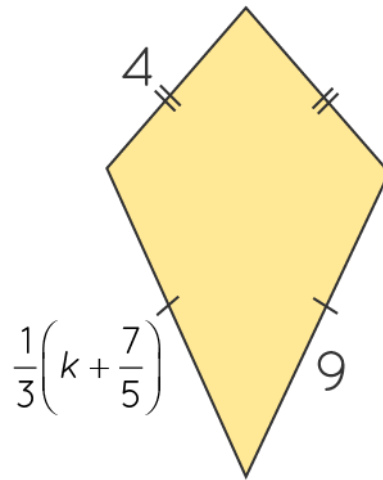
7. Solve for s using the following isosceles triangle.



8. A jar of chocolates initially had 65 chocolates in it. If 3 chocolates were taken out of it each day, after d days, there were 20 chocolates left in it. Find d .



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



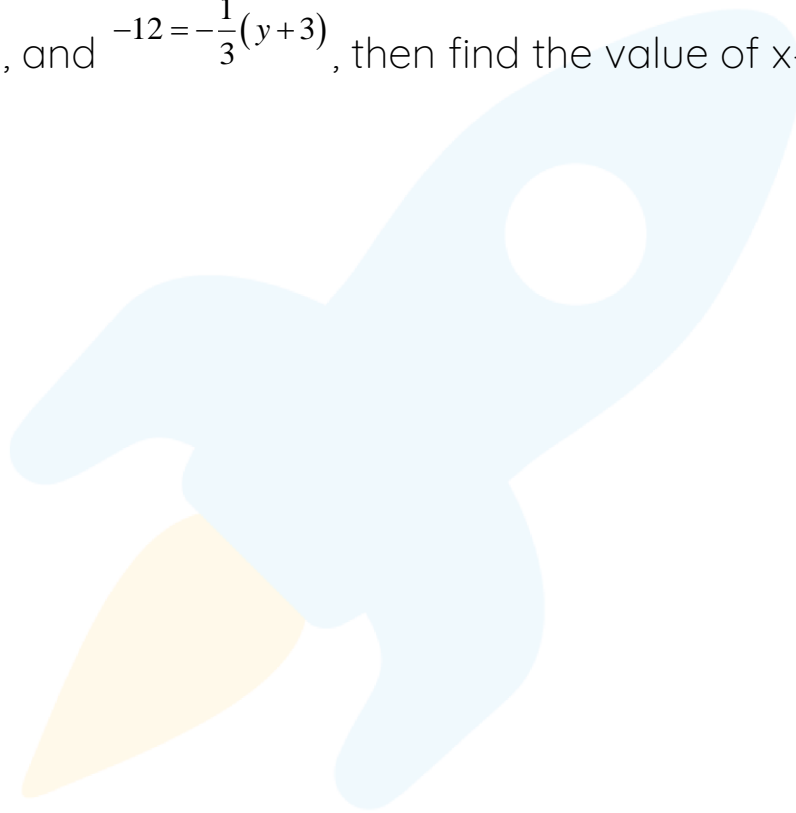
10. Maria sold half of her comic magazines and bought 7 more new magazines. If she now has 42 magazines in total, how many she had initially?



11. Robert has \$100 and he bought 7 cinema tickets. After buying the tickets, he still had \$9 left. What is the cost of each cinema ticket?



12. 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) $v = -83/3$
4) $p = 26/7$	5) 10 pages	6) $z = 128/3$
7) $s = -51/2$	8) $d = 15$	9) $k = 128/5$
10) 98 magazines	11) 13\$	12) $-327/10$

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

