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8th Grade Equations Worksheets

1. The value of x that satisfies $-2(3x-2) = -5x+7$ is $x = \underline{\hspace{2cm}}$.
2. The value of t that satisfies the equation $\frac{-5(12-t)}{8} = -7$.
3. The solution of the equation $-3 = \frac{p-5}{p+8}$ is $p = \underline{\hspace{2cm}}$.
4. Solve the equation for m .

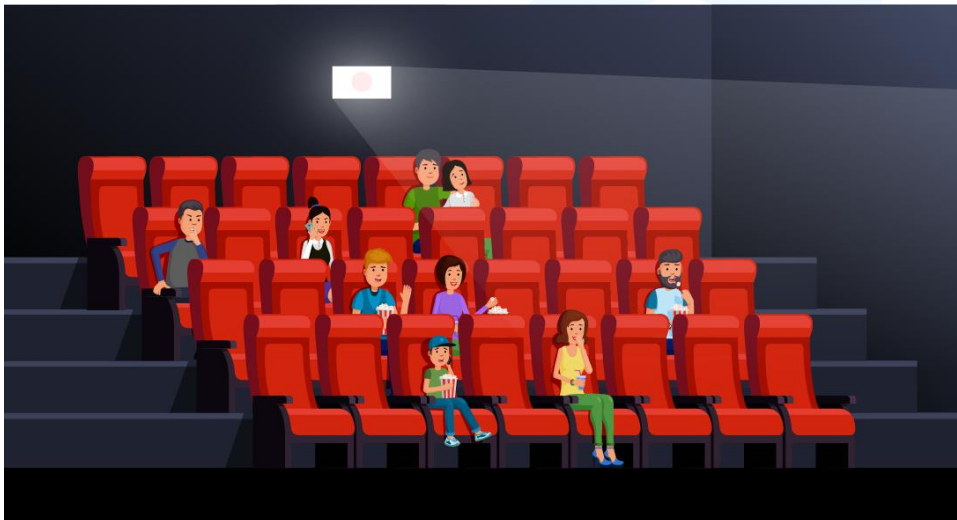
$$\frac{5}{8} = \frac{3}{4} \left(m + \frac{1}{2} \right)$$
5. Robert is 36 years younger than his father. Four years ago, Robert's father was 4 times older than his son. Then what are their current ages?



6. When a number is multiplied by $\frac{3}{2}$ and add $\frac{2}{3}$ to the product, the result is $-\frac{5}{6}$. What is that number?
7. Two numbers are in the ratio 2:5. Their sum is 49. Find the numbers.
8. William has 48 animals in his barn, among which some are chickens and some are cows. If there are 150 legs in total, then how many animals of each type are there in the barn?



9. A movie theatre charges adults and children differently. The cost of 3 adult tickets and 2 children tickets is \$77 and the cost of 1 adult ticket and 3 children tickets is \$56. Then what is the cost of each adult's ticket and each children's ticket?



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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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- 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) $x = 3$	2) $t = 4/5$	3) $p = -19/4$
4) $m = 1/3$	5) Robert's father's age = 52 years Robert's age = $f - 36 = 52 - 36 = 16$ years	6) -1
7) 14 and 35	8) The number of chickens = 21 The number of cows = 27	9) The cost of each adult's ticket = 17\$ and The cost of each children's ticket = \$13
10) $-327/10$		

FUN FACT

1. Equations may contain one or more variables.
2. To solve an equation with a single variable, we just apply the opposite operations on both sides of the given equation to isolate the variable.

