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Solving Equations with fractions Worksheets

For questions (1-7), find the solution of each of the following equations:

1) $s + \frac{11}{3} = -s$

2) $-7a + \frac{2}{3}a = 57$

3) $\frac{5}{2} - 3p = -4$

4) $-z + \frac{2}{9} = \frac{3}{2}$

5) $6q - \frac{3}{2}q = 27$

6) $\frac{m}{4} - 11 = 34 + \frac{m}{7}$

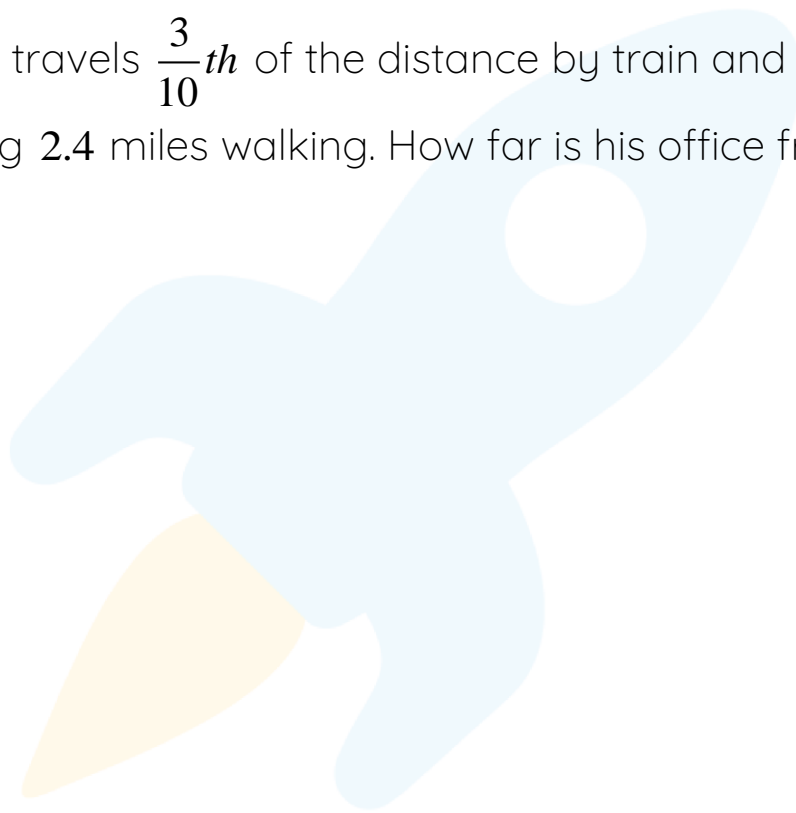
7) $\frac{n}{7} \left(1 - \frac{7}{5}\right) = \frac{3}{14}(n - 4)$

8) Find the value of c from the following equation:

$$\frac{2c - 7}{5} = 3 - \frac{c}{3}$$

9) Luke has to paint a wall of a certain length. He painted $\frac{3}{8}th$ of the wall yesterday and $\frac{1}{4}th$ of the wall today, and $39.375 ft$ is still left to be painted. Find the length of the wall.

10) Carter travels $\frac{2}{5}th$ of the distance from his home to office in a bus, he travels $\frac{3}{10}th$ of the distance by train and the remaining 2.4 miles walking. How far is his office from his home?



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in an interesting way,
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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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

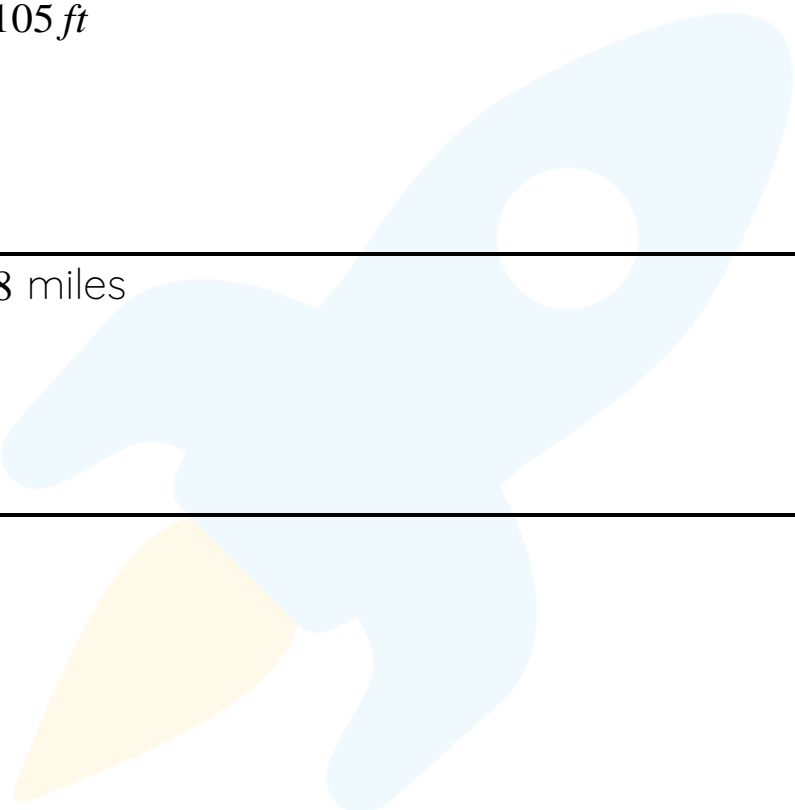
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**ANSWERS**

1)	$\frac{-11}{6}$
2)	-9
3)	$\frac{13}{6}$
4)	$\frac{-23}{18}$
5)	6
6)	420

7)	$\frac{60}{19}$
8)	6
9)	105 <i>ft</i>
10)	8 miles



FUN FACT

1. Each term on both the sides or all the terms on both the sides taken together must be equal to each other to satisfy the equation.
2. For an equation to be valid, the LHS must always be equal to the RHS.
3. The value of the variable present in the equation for which it is valid is known as the solution of an

