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## Solving Equations with fractions Worksheets

**For questions (1-6), find the solution of each of the following equations:**

1)  $\frac{-7}{9} = \frac{7}{9}p + 1$

2)  $\frac{2m}{7} - 13 = m + 22$

3)  $x + \frac{1}{7} = \frac{5}{14} - \frac{x}{28}$

4)  $-q + \frac{11}{3} = \frac{-3}{11}$

5)  $\frac{2}{3} - 5\left(a + \frac{1}{7}\right) = \frac{11a}{21}$

6)  $\frac{5r}{4} - \frac{3}{4} = \frac{1}{2} + 1\frac{1}{8}$

7) Out of the following equations, choose the one with a solution of  $n = -1$ .

A.  $n + \frac{3}{4} = \frac{1}{2} - \frac{n}{4}$

B.  $-n - \frac{3}{4} = \frac{1}{2} - \frac{n}{4}$

C.  $-n - \frac{3}{4} = \frac{1}{2} + \frac{n}{4}$

D.  $n - \frac{3}{4} = \frac{1}{2} + \frac{n}{4}$

8) Which of the following equation will give a solution of  $q = -a$  ?

A.  $\frac{5}{6}q + a = \frac{a}{6}$

B.  $\frac{5}{6}q - a = \frac{a}{6}$

C.  $\frac{5}{6}q + a = -\frac{a}{6}$

D.  $\frac{5}{6}q - a = -\frac{a}{6}$

9) The perimeter of a rectangle is **104** units. If the width of the rectangle is  $\frac{5}{8}th$  of the length of the rectangle, find its area.

10) In a national zoo,  $\frac{1}{3}rd$  of the animals are birds,  $\frac{2}{9}th$  of the animals are reptiles, and remaining of the animals count to **400**. Find the number of reptiles.

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## Why choose Cuemath?

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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

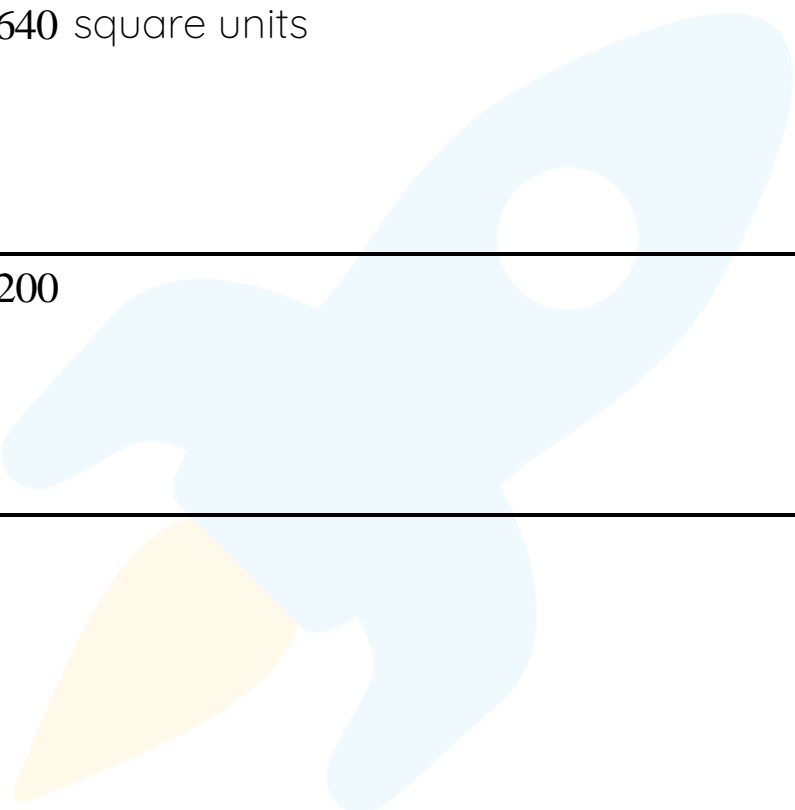
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**ANSWERS**

1)	$\frac{-16}{7}$
2)	-49
3)	$\frac{2}{9}$
4)	$\frac{130}{33}$
5)	$\frac{1}{116}$
6)	$\frac{19}{10}$

7)	(C)
8)	(D)
9)	<b>640</b> square units
10)	<b>200</b>



## FUN FACT

1. Balancing method is used to find the solution of an equation.
2. In the balancing method, both sides are balanced by using mathematical operations like addition, subtraction, multiplication or division using the same set of numbers.
3. Transposition method of finding the solution of an equation is another

