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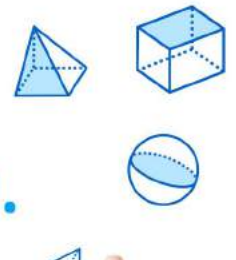

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# Solving Equations with fractions Worksheets

**For questions (1-5), find the solution of each of the following equations:**

1) $3x-\frac{2}{5}=3$

2) $\frac{1}{2}+\frac{2}{3}y=5$

3) $2x+\frac{3}{5}x=-3$

4) $-3m+5=\frac{4}{3}$

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

6) For which of the following equations is $p=\frac{1}{4}$ a solution?

A. $p-\frac{1}{2}=\frac{1}{4}$

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

C. $p+\frac{1}{2}=\frac{1}{4}$

D. $\frac{1}{4}-p=\frac{1}{2}$

7) In which of the following equations will $-2$ be a solution?

A. $x-\frac{1}{9}=\frac{3}{4}x-\frac{19}{9}$

B. $x+\frac{1}{9}=\frac{3}{4}x+\frac{19}{9}$

C. $x+\frac{1}{9}=\frac{3}{4}x-\frac{19}{9}$

D. $x+\frac{1}{9}=\frac{3}{4}x+\frac{19}{9}$

8) Sam has some free time to spend in the evening. He spend $\frac{1}{3}$rd of the time playing video games, $\frac{1}{4}$th of the time working on the worksheets. If he went for cycling for $2\frac{1}{2}$ hours, how much total free time does he have?

9) John has a piece of cloth. He needs to cut the cloth and sew shirts of $\frac{1}{3}$rd of its length, sew pants of $\frac{1}{4}th$ of it. If he is still left with $18.75\,ft$ of the cloth, find the length of the cloth he had initially.

10) There are $x$ number of marbles in a black bag. In a brown bag, the number of marbles is $25$ more than $\frac{2}{3}rd$ of the black bag. If in total there are $200$ marbles in both the bags, find the number of marbles in the brown bag.

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# ANSWERS

| | |
|---|---|
| 1) | $\frac{17}{15}$ |
| 2) | $\frac{27}{4}$ |
| 3) | $\frac{-15}{13}$ |
| 4) | $\frac{11}{9}$ |
| 5) | 18 |
| 6) | (B) |

| | |
|---|---|
| 7) | (C) |
| 8) | $6 hours$ |
| 9) | $45\ ft$ |
| 10) | 95 |

## FUN FACT

1. In the transposition method of finding the solution of an equation, we transpose all the numbers on one side of the equation and only keep the variable on one side to find its value.
2. We solve an equation by first combining the like terms on both sides of the equation