

EQUATIONS

Solve each of the following:

1. $\frac{x}{3} + \frac{x}{2} = 10$

2. $\frac{a}{4} - \frac{a}{8} = 3$

3. $\frac{x}{2} + \frac{x+2}{3} = 9$

4. $\frac{b+5}{6} + \frac{b+3}{5} = 4$

5. $\frac{c-2}{6} - \frac{c-4}{8} = \frac{3}{2}$

6. $\frac{x+5}{4} - \frac{x+3}{8} = \frac{7}{4}$

7. $\frac{x}{3} + \frac{x}{4} = \frac{x}{8} + \frac{11}{2}$

8. $\frac{x+9}{4} + \frac{x+1}{2} = \frac{x-11}{5}$

9. $\frac{3x-2}{10} - \frac{x-1}{6} = \frac{1}{2}$

10. $\frac{2x-3}{7} - \frac{3x}{8} = -\frac{1}{4}$

11. $\frac{3y}{5} - \frac{2y-1}{3} = 0$

12. $6 - \frac{4(x-3)}{3} = \frac{x-2}{2}$

13. $\frac{7x+3}{8} + \frac{7-2x}{5} = \frac{35x-25}{24} - \frac{5x-7}{6}$

14. $\frac{4-3x}{8} + 2 = \frac{x-5}{4} - x$

15. $3x-4 - \frac{2(4x-5)}{3} = \frac{4(x-3)}{3} + \frac{x-2}{2}$

Answers:

1. $x=12$ 2. $a=24$ 3. $x=10$ 4. $b=7$ 5. $c=32$

6. $x=7$ 7. $x=12$ 8. $x=-9$ 9. $x=4$ 10. $x=-2$

11. $y=5$ 12. $x=6$ 13. $x=11$ 14. $x=-10$ 15. $x = \frac{26}{9}$