

MATH 0304 – PRE-ALGEBRA

Solve the following equations:

1. $-\frac{1}{5} = x - \frac{5}{6}$

2. $26 = 4y$

3. $\frac{7}{8}x = -\frac{5}{16}$

4. $-5m = -\frac{15}{16}$

5. $\frac{5}{9} = x - \frac{2}{3}$

6. $\frac{3x}{7} = \frac{1}{2}$

7. $\frac{-2y}{3} = 4\frac{7}{8}$

8. $\frac{13}{5} = x + 2\frac{1}{2}$

9. A number minus one-third is one-half. Find the #.

Simplify each of the following:

10. $\frac{3}{4} \div \frac{7}{8}$

11. $\frac{5}{25} \div 3$

12. $\frac{\frac{3}{4} + \frac{1}{8}}{\frac{7}{8} - \frac{2}{3}}$

13. $\frac{\frac{2}{3} + \frac{1}{6}}{\frac{8}{9} - \frac{1}{2}}$

14. $\frac{3\frac{3}{4} + 2\frac{1}{8}}{\frac{5}{12} - \frac{1}{6}}$

15. $\frac{\frac{5}{6} + 2}{\frac{3}{4} - \frac{1}{6}}$

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Solutions:

1. $\frac{19}{30}$	2. $6\frac{1}{2}$	3. $-\frac{5}{14}$
4. $\frac{3}{16}$	5. $1\frac{2}{9}$	6. $1\frac{1}{6}$
7. $-7\frac{5}{16}$	8. $\frac{1}{10}$	9. $\frac{5}{6}$
10. $\frac{6}{7}$	11. $\frac{1}{15}$	12. $4\frac{1}{5}$
13. $2\frac{1}{7}$	14. $23\frac{1}{2}$	15. $4\frac{6}{7}$

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