

CLASSWORK PROBLEMS

SOLVING EQUATIONS WITH FRACTIONS

DIRECTIONS:

- Write money in proper form.
- Reduce fractions/ratios to lowest terms.
- Round decimals to nearest cent/hundredth.

DO NOT USE A CALCULATOR!!!

Solve each equation.

1) $y - \frac{1}{8} = -\frac{3}{8}$

2) $\frac{1}{5} + y = -4$

3) $-\frac{7}{2} = y - 10$

4) $-3\frac{2}{3} = -8\frac{4}{9} + y$

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

6) $-15y = -\frac{1}{15}$

7) $\frac{36}{27} = -\frac{9}{10}y$

8) $\frac{4}{3} = 2y$

9) $-5\frac{1}{4}y = -2\frac{1}{2}$

10) $-\frac{9}{18} = -\frac{54}{36}y$

11) $\frac{3}{4}x - 2 = \frac{1}{4} + 3x$

12) $\frac{1}{3}y + \frac{2}{4} = \frac{3}{4}y - \frac{2}{3}$

13) $\frac{3}{5}x - \frac{2}{5} + \frac{1}{10}x = \frac{3}{10}$

14) $\frac{1}{6}y + 3y - \frac{1}{2} = \frac{2}{3}y + 1$

15) $\frac{1}{2}(6x - 4) = \frac{1}{3}(15 + 30x)$

16) $\frac{2}{5}(15 - 10y) = \frac{3}{4}(12y - 4)$

17) $\frac{2}{3}\left(\frac{1}{2}x + 9\right) - \frac{1}{2}\left(\frac{4}{3}x + \frac{1}{6}\right) = \frac{5}{12}$

18) $\frac{3}{5}\left(5y - \frac{3}{2}\right) + \frac{7}{10}\left(\frac{20}{7} + 30y\right) = 3$

19) $\frac{1}{3}(5 + 7x) = 12 - \frac{1}{2}(3 - 2x)$

20) $\frac{3}{8}\left(\frac{4}{12} - 2x\right) + \frac{1}{4}x = \frac{1}{3}\left(3 - \frac{1}{2}x\right)$