

## Basic Math Homework #12

- 1) Simplify:  $4\frac{2}{24} \cdot 2\frac{1}{49} \div 2\frac{1}{5}$
- 2) Simplify:  $\sqrt{4\frac{21}{25}} \div \left(1\frac{7}{15}\right)^2$
- 3) Simplify:  $5\frac{5}{8} - 1\frac{1}{6} - 2\frac{7}{18}$
- 4) Convert  $7\frac{3}{8}$  to an improper fraction.
- 5) If a class consists of 36 students and 20 are girls, what fraction are boys?
- 6) Simplify:  $\sqrt{5\frac{4}{9}} + 1\frac{3}{33} \left(3\frac{1}{6} - 2\frac{5}{9}\right) - 1\frac{2}{3}$
- 7) Simplify:  $\frac{\frac{5}{8} + \frac{7}{12}}{\frac{2}{9} - \frac{1}{24}}$
- 8) If Mike walks  $6\frac{5}{48}$  miles on Thursday and  $5\frac{1}{64}$  miles on Friday, how far did he walk?
- 9) Simplify:  $6\frac{2}{48} \div \left(4\frac{5}{8} + 1\frac{5}{12}\right) + \left(7\frac{9}{10}\right)^0 - \sqrt{2\frac{1}{4}}$
- 10) Simplify:  $\frac{\frac{11}{5} - \frac{7}{4}}{\frac{54}{18} - \frac{72}{81}}$

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- 11) After a  $9\frac{7}{12}$  pound roast was trimmed of fat, it weighed  $7\frac{5}{18}$  pounds.

How much of the roast was fat?

12) Simplify:  $\left(6\frac{7}{12} - 1\frac{2}{9}\right) \div \left(5\frac{3}{8} + 2\frac{4}{6}\right)$

13) Simplify:  $\frac{\frac{7}{48} + \frac{9}{64}}{\frac{5}{32} + \frac{1}{24}}$

- 14) If  $8\frac{3}{4}$  pounds of beans are to be shared equally by 5 people, how many pounds of beans does each person receive?

15) Simplify:  $4\frac{5}{9} \div 1\frac{4}{81} \cdot 3\frac{2}{5} \div 9\frac{1}{9}$

16) Simplify:  $\frac{3\frac{5}{9} - 2\frac{7}{12}}{1\frac{1}{18} + 4\frac{5}{6}}$

- 17) If a glass of water contains  $9\frac{3}{8}$  ounces and there were  $14\frac{2}{3}$  glasses consumed at a party, how many ounces of water were consumed?

18) Simplify:  $\left(2\frac{6}{7} \cdot \frac{70}{140} - 1\frac{3}{7}\right) \div \left(2\frac{1}{4} \div 5\frac{1}{8}\right)$

19) Simplify:  $\frac{6 - 4\frac{1}{8}}{1\frac{1}{14}}$

- 20) If Sarah has  $25\frac{2}{3}$  yards of fabric on hand. If it takes  $1\frac{2}{9}$  yards of fabric to make a skirt, how many skirts can she make?

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