Basic Math Homework #12

1) Simplify: $4\dfrac{2}{24} \cdot 2\dfrac{1}{49} \div 2\dfrac{1}{5}$

2) Simplify: $\sqrt{4\dfrac{21}{25}} \div \left(1\dfrac{7}{15}\right)^2$

3) Simplify: $5\dfrac{5}{8} - 1\dfrac{1}{6} - 2\dfrac{7}{18}$

4) Convert $7\dfrac{3}{8}$ to an improper fraction.

5) If a class consists of 36 students and 20 are girls, what fraction are boys?

6) Simplify: $\sqrt{5\dfrac{4}{9}} + 1\dfrac{3}{33}\left(3\dfrac{1}{6} - 2\dfrac{5}{9}\right) - 1\dfrac{2}{3}$

7) Simplify: $\dfrac{\dfrac{5}{8} + \dfrac{7}{12}}{\dfrac{2}{9} - \dfrac{1}{24}}$

8) If Mike walks $6\dfrac{5}{48}$ miles on Thursday and $5\dfrac{1}{64}$ miles on Friday, how far did he walk?

9) Simplify: $6\dfrac{2}{48} \div \left(4\dfrac{5}{8} + 1\dfrac{5}{12}\right) + \left(7\dfrac{9}{10}\right)^0 - \sqrt{2\dfrac{1}{4}}$

10) Simplify: $\dfrac{\dfrac{11}{54} - \dfrac{7}{72}}{\dfrac{5}{18} - \dfrac{4}{81}}$

Basic Math Homework #12

11) After a $9\dfrac{7}{12}$ pound roast was trimmed of fat, it weighed $7\dfrac{5}{18}$ pounds. How much of the roast was fat?

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

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

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

15) Simplify: $4\dfrac{5}{9}\div1\dfrac{4}{81}\cdot3\dfrac{2}{5}\div9\dfrac{1}{9}$

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

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

18) Simplify: $\left(2\dfrac{6}{7}\cdot\dfrac{70}{140}-1\dfrac{3}{7}\right)\div\left(2\dfrac{1}{4}\div5\dfrac{1}{8}\right)$

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

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