Basic Math Homework #11

1) Simplify: $\sqrt{\dfrac{64}{81}} + \dfrac{84}{39}\left(\dfrac{5}{14} - \dfrac{1}{21}\right) - \dfrac{5}{3^2}$

2) Simplify: $\sqrt[4]{\dfrac{162}{512}}$

3) If Barbara walks $\dfrac{7}{8}$ miles on Saturday and $\dfrac{11}{12}$ miles on Sunday, how far did she walk?

4) Simplify: $\dfrac{84}{98} \div \dfrac{126}{686} \cdot \dfrac{96}{144}$

5) Simplify: $\dfrac{11}{72} + \dfrac{5}{54} - \dfrac{1}{81}$

6) Convert $5\dfrac{4}{9}$ to an improper fraction.

7) Simplify: $5\dfrac{5}{8} \div 2\dfrac{11}{12} \cdot 1\dfrac{1}{6}$

8) Simplify: $\sqrt{2\dfrac{1}{4} \cdot \left(1\dfrac{1}{3}\right)^2}$

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

10) Convert $\dfrac{73}{8}$ to a mixed number.

11) Simplify: $3\dfrac{2}{9} \cdot 1\dfrac{3}{4} \div 3\dfrac{4}{18}$

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12) Simplify: $\left(2\frac{1}{2}\right)^3 + \sqrt{7\frac{1}{9}}$

13) Simplify: $3\frac{1}{18} - 2\frac{5}{24} + 5\frac{4}{9}$

14) Convert $12\frac{5}{13}$ to an improper fraction.

15) Simplify: $7\frac{5}{17} \div 5\frac{1}{37} \div 6\frac{9}{17}$

16) Simplify: $\sqrt{3\frac{1}{16}} \div \left(2\frac{5}{8}\right)^2$

17) Simplify: $2\frac{7}{20} - 1\frac{3}{8} + 4\frac{1}{12}$

18) Convert $\frac{287}{12}$ to a mixed number.

19) Simplify: $4\frac{3}{8} \cdot 1\frac{1}{15} \div 24$

20) Simplify: $\left(2\frac{2}{3}\right)^2 - \sqrt{5\frac{16}{36}}$