



Estimating with Fractions and Mixed Numbers

Round each fraction to the nearest benchmark number (0, $\frac{1}{2}$, or 1), then estimate each sum or difference below.

1) $\frac{1}{6} + \frac{5}{8}$

2) $\frac{7}{8} - \frac{1}{16}$

3) $\frac{9}{10} + \frac{7}{8}$

4) $\frac{1}{10} + \frac{5}{6}$

5) $\frac{4}{5} - \frac{1}{6}$

6) $\frac{11}{12} - \frac{5}{16}$

Round each mixed number to the nearest whole, then estimate the following sums, differences and products.

7) $4\frac{9}{10} - 3\frac{5}{8}$

8) $14\frac{3}{4} + 9\frac{7}{8}$

9) $5\frac{1}{6} \cdot 8\frac{4}{5}$

10) $3\frac{5}{6} \times 10\frac{1}{12}$

- 11) Mr. Colby's truck gets $11\frac{5}{9}$ miles per gallon gas mileage. The truck's gas tank holds $17\frac{2}{15}$ gallons of gas. About how far can Mr. Colby drive on a full tank of gas?



Estimate the following quotients of mixed numbers by rounding each mixed number to the nearest whole, then using compatible numbers.

12) $13\frac{1}{8} \div 6\frac{1}{5}$

13) $8\frac{1}{6} \div 1\frac{9}{10}$

14) $27\frac{6}{7} \div 3\frac{2}{3}$

15) $9\frac{1}{3} \div 2\frac{7}{8}$

16) $19\frac{4}{5} \div 4\frac{5}{8}$

17) $72\frac{2}{15} \div 8\frac{3}{4}$

18) A fabric store has $80\frac{3}{8}$ yd of a particular fabric. About how many curtains could be made from this fabric if each curtain requires $4\frac{1}{8}$ yd of fabric?

