

Name: Class:

Estimate sums and differences of mixed numbers

Steps for estimating the difference and the sum.

1 turn each fraction to an improper fraction

$$19 \frac{2}{18} - 11 \frac{2}{16}$$

$$19 \frac{2}{18} = \frac{(19 \times 18) + 2}{18} = \frac{344}{18}$$

$$11 \frac{2}{16} = \frac{(11 \times 16) + 2}{16} = \frac{178}{16}$$

2 convert each fraction to decimals

$$18 \overline{) 344.00} = 19.11$$

$$16 \overline{) 178.000} = 11.125$$

3 convert each decimal to whole number.

19.11 to the nearest whole number is 19
11.125 to the nearest whole number is 11

4 now subtract the whole numbers.

Therefore, the difference of $19 \frac{2}{18} - 11 \frac{2}{16} = 8$

$19 - 11 = 8$

Add or subtract the following mixed numbers and write the correct answer.

a. Estimate the difference. Round to the nearest tens.

$98 \frac{5}{14} - 55 \frac{1}{2} =$

b. Estimate the Sum. Round to the nearest whole number.

$2 \frac{1}{4} + 15 \frac{5}{12} =$

c. Estimate the Sum. Round to the nearest hundreds.

$370 \frac{9}{11} - 239 \frac{8}{11} =$

d. Estimate the Sum. Round to the nearest whole number.

$16 \frac{3}{5} + 2 \frac{3}{7} =$

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1 turn each fraction to an improper fraction

$$19 \frac{2}{18} - 11 \frac{2}{16}$$

$$19 \frac{2}{18} = \frac{(19 \times 18) + 2}{18} = \frac{344}{18}$$

$$11 \frac{2}{16} = \frac{(11 \times 16) + 2}{16} = \frac{178}{16}$$

2 convert each fraction to decimals

$$18 \overline{) 344.00} \begin{array}{r} 19.11 \\ - 18 \\ \hline 164 \\ - 162 \\ \hline 20 \\ - 18 \\ \hline 20 \\ - 18 \\ \hline 2 \end{array} \quad \frac{344}{18} = 19.11$$

$$16 \overline{) 178.000} \begin{array}{r} 11.125 \\ - 16 \\ \hline 18 \\ - 16 \\ \hline 20 \\ - 16 \\ \hline 40 \\ - 32 \\ \hline 80 \\ - 80 \\ \hline 0 \end{array} \quad \frac{178}{16} = 11.125$$

3 convert each decimal to whole number.

19.11 to the nearest whole number is 19

11.125 to the nearest whole number is 11

4 now subtract the whole numbers.

Therefore, the difference of $19 \frac{2}{18} - 11 \frac{2}{16} = 8$

$$19 - 11 = 8$$

Add or subtract the following mixed numbers.

a. Estimate the difference. Round to the nearest tens.

$$98 \frac{5}{14} - 55 \frac{1}{2} = 40$$

b. Estimate the Sum. Round to the nearest whole number.

$$2 \frac{1}{4} + 15 \frac{5}{12} = 17$$

c. Estimate the Sum. Round to the nearest hundreds.

$$370 \frac{9}{11} - 239 \frac{8}{11} = 200$$

d. Estimate the Sum. Round to the nearest whole number.

$$16 \frac{3}{5} + 2 \frac{3}{7} = 19$$