

Mixed Numbers

Write mixed numbers as fractions, and fractions as mixed numbers.

Break each mixed number into wholes and a fraction. Write the fraction.

Example



$$2\frac{3}{5} = \overset{\text{Wholes and a fraction}}{\frac{5}{5}} + \frac{5}{5} + \overset{\text{Fraction}}{\frac{3}{5}} = \frac{13}{5}$$

1.



$$1\frac{5}{12} = \frac{\square}{12} + \frac{\square}{12} = \frac{\square}{12}$$

2.



$$2\frac{7}{8} = \frac{\square}{8} + \frac{\square}{8} + \frac{\square}{8} = \frac{\square}{8}$$

3.



$$1\frac{9}{10} = \frac{\square}{10} + \frac{\square}{10} = \frac{\square}{10}$$

Shade the fraction. Break it into wholes. Write the mixed number.

Example



$$\frac{11}{5} = \overset{\text{Wholes and the rest}}{\frac{5}{5}} + \frac{5}{5} + \overset{\text{Mixed number}}{\frac{1}{5}} = 2\frac{1}{5}$$

4.



$$\frac{19}{8} = \frac{\square}{8} + \frac{\square}{8} + \frac{\square}{8} = \square \frac{\square}{\square}$$

5.



$$\frac{13}{10} = \frac{\square}{10} + \frac{\square}{10} = \square \frac{\square}{\square}$$

6.



$$\frac{29}{12} = \frac{\square}{12} + \frac{\square}{12} + \frac{\square}{12} = \square \frac{\square}{\square}$$

Mixed Numbers

Add the wholes, then the fractions. Trade to make 1 whole.

Add the wholes. Add the fractions. Then put them together.

Example

$$2\frac{1}{5} + 1\frac{3}{5} = \boxed{3} + \frac{\boxed{4}}{5} = \boxed{3\frac{4}{5}}$$

$$1. \quad 4\frac{3}{10} + 2\frac{4}{10} = \boxed{} + \frac{\boxed{}}{10} = \boxed{}$$

$$2. \quad 1\frac{1}{8} + 3\frac{4}{8} = \boxed{} + \frac{\boxed{}}{8} = \boxed{}$$

$$3. \quad 5\frac{2}{12} + 1\frac{3}{12} = \boxed{} + \frac{\boxed{}}{12} = \boxed{}$$

The fractions make more than 1 whole. Trade to make 1 whole.

Example

$$2\frac{4}{5} + 1\frac{3}{5} = \boxed{3} \frac{\boxed{7}}{5} = \boxed{3} + 1\frac{\boxed{2}}{5} = \boxed{4\frac{2}{5}}$$

$$4. \quad 3\frac{3}{4} + 2\frac{2}{4} = \boxed{} \frac{\boxed{}}{4} = \boxed{} + 1\frac{\boxed{}}{4} = \boxed{}$$

$$5. \quad 2\frac{5}{6} + 1\frac{2}{6} = \boxed{} \frac{\boxed{}}{6} = \boxed{} + 1\frac{\boxed{}}{6} = \boxed{}$$

$$6. \quad 4\frac{7}{10} + 3\frac{6}{10} = \boxed{} \frac{\boxed{}}{10} = \boxed{} + 1\frac{\boxed{}}{10} = \boxed{}$$

$$7. \quad 1\frac{2}{3} + 3\frac{2}{3} = \boxed{} \frac{\boxed{}}{3} = \boxed{} + 1\frac{\boxed{}}{3} = \boxed{}$$

Mixed Numbers

Subtract the wholes and the fractions. Trade 1 whole if needed.

Subtract the wholes. Subtract the fractions. Then put them together.

Example

$$4\frac{5}{8} - 1\frac{2}{8} = \boxed{3} + \frac{\boxed{3}}{8} = \boxed{3\frac{3}{8}}$$

1.

$$5\frac{9}{10} - 2\frac{2}{10} = \boxed{} + \frac{\boxed{}}{10} = \boxed{}$$

2.

$$6\frac{4}{5} - 3\frac{1}{5} = \boxed{} + \frac{\boxed{}}{5} = \boxed{}$$

3.

$$3\frac{11}{12} - 1\frac{6}{12} = \boxed{} + \frac{\boxed{}}{12} = \boxed{}$$

The top fraction is too small. Trade 1 whole first.

Example

$$5\frac{1}{4} - 2\frac{2}{4} = \boxed{4}\frac{\boxed{5}}{4} - 2\frac{2}{4} = \boxed{2\frac{3}{4}}$$

4.

$$7\frac{2}{5} - 2\frac{4}{5} = \boxed{}\frac{\boxed{}}{5} - 2\frac{4}{5} = \boxed{}$$

5.

$$4\frac{1}{6} - 1\frac{2}{6} = \boxed{}\frac{\boxed{}}{6} - 1\frac{2}{6} = \boxed{}$$

6.

$$8\frac{3}{10} - 2\frac{6}{10} = \boxed{}\frac{\boxed{}}{10} - 2\frac{6}{10} = \boxed{}$$

7.

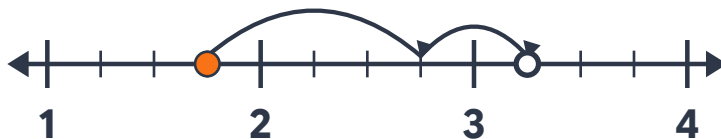
$$5 - 1\frac{3}{8} = \boxed{}\frac{\boxed{}}{8} - 1\frac{3}{8} = \boxed{}$$

Mixed Numbers

Jump the whole numbers first, then the fraction.

Add. Start at the dot. Jump 1 whole at a time, then the fraction.

Example $1\frac{3}{4} + 1\frac{2}{4} = 3\frac{1}{4}$



1. $2\frac{1}{6} + 1\frac{4}{6} = \boxed{}$



2. $3\frac{3}{8} + 1\frac{6}{8} = \boxed{}$



3. $1\frac{3}{8} + 2\frac{5}{8} = \boxed{}$



Subtract. Start at the dot. Jump back 1 whole at a time, then the fraction.

Example $4\frac{1}{3} - 1\frac{2}{3} = 2\frac{2}{3}$



4. $3\frac{1}{4} - 1\frac{2}{4} = \boxed{}$



5. $5\frac{2}{5} - 2\frac{4}{5} = \boxed{}$



6. $4\frac{5}{8} - 2\frac{2}{8} = \boxed{}$



Mixed Numbers

Estimate to check answers. Then solve the story problems.

Round each number to the nearest whole. Does the answer make sense?

Example

$$1\frac{7}{8} + 2\frac{6}{8} = 3\frac{13}{16}$$

Estimate: $\boxed{2} + \boxed{3} = \boxed{5}$

Does it make sense? Yes **No**

1. $6\frac{1}{8} - 2\frac{6}{8} = 4\frac{5}{8}$

Estimate: $\boxed{} - \boxed{} = \boxed{}$

Does it make sense? Yes **No**

2. $1\frac{9}{10} + 2\frac{2}{10} = 4\frac{1}{10}$

Estimate: $\boxed{} + \boxed{} = \boxed{}$

Does it make sense? Yes **No**

3. $6\frac{3}{12} - 1\frac{10}{12} = 4\frac{5}{12}$

Estimate: $\boxed{} - \boxed{} = \boxed{}$

Does it make sense? Yes **No**

Write an equation. Then solve.

Example

A trail is $3\frac{3}{10}$ miles long. Kai has hiked $1\frac{6}{10}$ miles. How much farther does he have to hike?

$$3\frac{3}{10} - 1\frac{6}{10} = 1\frac{7}{10}$$

$1\frac{7}{10}$ miles

4. Ella's puppy weighed $4\frac{5}{8}$ pounds. Then it gained $1\frac{6}{8}$ pounds. How much does it weigh now?

_____ $\boxed{}$ pounds

5. A jug holds $6\frac{1}{4}$ cups of lemonade. The class drinks $3\frac{2}{4}$ cups. How much lemonade is left?

_____ $\boxed{}$ cups

6. Ben paints for $1\frac{2}{3}$ hours on Saturday and $2\frac{2}{3}$ hours on Sunday. How long does he paint in all?

_____ $\boxed{}$ hours

Mixed Numbers

Write mixed numbers as fractions, and fractions as mixed numbers.

Break each mixed number into wholes and a fraction. Write the fraction.

Example



$$2\frac{3}{5} = \overset{\text{Wholes and a fraction}}{\frac{5}{5}} + \frac{5}{5} + \overset{\text{Fraction}}{\frac{3}{5}} = \frac{13}{5}$$

1.



$$1\frac{5}{12} = \frac{\square}{12} + \frac{\square}{12} = \frac{\square}{12}$$

2.



$$2\frac{7}{8} = \frac{\square}{8} + \frac{\square}{8} + \frac{\square}{8} = \frac{\square}{8}$$

3.



$$1\frac{9}{10} = \frac{\square}{10} + \frac{\square}{10} = \frac{\square}{10}$$

Shade the fraction. Break it into wholes. Write the mixed number.

Example



$$\frac{11}{5} = \overset{\text{Wholes and the rest}}{\frac{5}{5}} + \frac{5}{5} + \frac{1}{5} = \overset{\text{Mixed number}}{2\frac{1}{5}}$$

4.



$$\frac{19}{8} = \frac{\square}{8} + \frac{\square}{8} + \frac{\square}{8} = \square \frac{\square}{\square}$$

5.



$$\frac{13}{10} = \frac{\square}{10} + \frac{\square}{10} = \square \frac{\square}{\square}$$

6.



$$\frac{29}{12} = \frac{\square}{12} + \frac{\square}{12} + \frac{\square}{12} = \square \frac{\square}{\square}$$

Mixed Numbers

Add the wholes, then the fractions. Trade to make 1 whole.

Add the wholes. Add the fractions. Then put them together.

Example

$$2\frac{1}{5} + 1\frac{3}{5} = \boxed{3} + \frac{\boxed{4}}{5} = \boxed{3\frac{4}{5}}$$

1.

$$4\frac{3}{10} + 2\frac{4}{10} = \boxed{} + \frac{\boxed{}}{10} = \boxed{}$$

2.

$$1\frac{1}{8} + 3\frac{4}{8} = \boxed{} + \frac{\boxed{}}{8} = \boxed{}$$

3.

$$5\frac{2}{12} + 1\frac{3}{12} = \boxed{} + \frac{\boxed{}}{12} = \boxed{}$$

The fractions make more than 1 whole. Trade to make 1 whole.

Example

$$2\frac{4}{5} + 1\frac{3}{5} = \boxed{3} \frac{\boxed{7}}{5} = \boxed{3} + 1\frac{\boxed{2}}{5} = \boxed{4\frac{2}{5}}$$

4.

$$3\frac{3}{4} + 2\frac{2}{4} = \boxed{} \frac{\boxed{}}{4} = \boxed{} + 1\frac{\boxed{}}{4} = \boxed{}$$

5.

$$2\frac{5}{6} + 1\frac{2}{6} = \boxed{} \frac{\boxed{}}{6} = \boxed{} + 1\frac{\boxed{}}{6} = \boxed{}$$

6.

$$4\frac{7}{10} + 3\frac{6}{10} = \boxed{} \frac{\boxed{}}{10} = \boxed{} + 1\frac{\boxed{}}{10} = \boxed{}$$

7.

$$1\frac{2}{3} + 3\frac{2}{3} = \boxed{} \frac{\boxed{}}{3} = \boxed{} + 1\frac{\boxed{}}{3} = \boxed{}$$

Mixed Numbers

Subtract the wholes and the fractions. Trade 1 whole if needed.

Subtract the wholes. Subtract the fractions. Then put them together.

Example

$$4\frac{5}{8} - 1\frac{2}{8} = \boxed{3} + \frac{\boxed{3}}{8} = \boxed{3\frac{3}{8}}$$

1.

$$5\frac{9}{10} - 2\frac{2}{10} = \boxed{} + \frac{\boxed{}}{10} = \boxed{}$$

2.

$$6\frac{4}{5} - 3\frac{1}{5} = \boxed{} + \frac{\boxed{}}{5} = \boxed{}$$

3.

$$3\frac{11}{12} - 1\frac{6}{12} = \boxed{} + \frac{\boxed{}}{12} = \boxed{}$$

The top fraction is too small. Trade 1 whole first.

Example

$$5\frac{1}{4} - 2\frac{2}{4} = \boxed{4}\frac{\boxed{5}}{4} - 2\frac{2}{4} = \boxed{2\frac{3}{4}}$$

4.

$$7\frac{2}{5} - 2\frac{4}{5} = \boxed{}\frac{\boxed{}}{5} - 2\frac{4}{5} = \boxed{}$$

5.

$$4\frac{1}{6} - 1\frac{2}{6} = \boxed{}\frac{\boxed{}}{6} - 1\frac{2}{6} = \boxed{}$$

6.

$$8\frac{3}{10} - 2\frac{6}{10} = \boxed{}\frac{\boxed{}}{10} - 2\frac{6}{10} = \boxed{}$$

7.

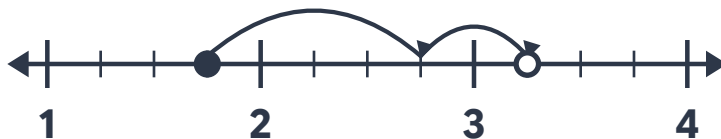
$$5 - 1\frac{3}{8} = \boxed{}\frac{\boxed{}}{8} - 1\frac{3}{8} = \boxed{}$$

Mixed Numbers

Jump the whole numbers first, then the fraction.

Add. Start at the dot. Jump 1 whole at a time, then the fraction.

Example $1\frac{3}{4} + 1\frac{2}{4} = 3\frac{1}{4}$



1. $2\frac{1}{6} + 1\frac{4}{6} = \boxed{}$



2. $3\frac{3}{8} + 1\frac{6}{8} = \boxed{}$



3. $1\frac{3}{8} + 2\frac{5}{8} = \boxed{}$



Subtract. Start at the dot. Jump back 1 whole at a time, then the fraction.

Example $4\frac{1}{3} - 1\frac{2}{3} = 2\frac{2}{3}$



4. $3\frac{1}{4} - 1\frac{2}{4} = \boxed{}$



5. $5\frac{2}{5} - 2\frac{4}{5} = \boxed{}$



6. $4\frac{5}{8} - 2\frac{2}{8} = \boxed{}$



Mixed Numbers

Estimate to check answers. Then solve the story problems.

Round each number to the nearest whole. Does the answer make sense?

Example

$$1\frac{7}{8} + 2\frac{6}{8} = 3\frac{13}{16}$$

Estimate: $\boxed{2} + \boxed{3} = \boxed{5}$

Does it make sense? Yes **No**

1. $6\frac{1}{8} - 2\frac{6}{8} = 4\frac{5}{8}$

Estimate: $\boxed{} - \boxed{} = \boxed{}$

Does it make sense? Yes **No**

2. $1\frac{9}{10} + 2\frac{2}{10} = 4\frac{1}{10}$

Estimate: $\boxed{} + \boxed{} = \boxed{}$

Does it make sense? Yes **No**

3. $6\frac{3}{12} - 1\frac{10}{12} = 4\frac{5}{12}$

Estimate: $\boxed{} - \boxed{} = \boxed{}$

Does it make sense? Yes **No**

Write an equation. Then solve.

Example

A trail is $3\frac{3}{10}$ miles long. Kai has hiked $1\frac{6}{10}$ miles. How much farther does he have to hike?

$3\frac{3}{10} - 1\frac{6}{10} = 1\frac{7}{10}$ $\boxed{1\frac{7}{10}}$ miles

4. Ella's puppy weighed $4\frac{5}{8}$ pounds. Then it gained $1\frac{6}{8}$ pounds. How much does it weigh now?

_____ $\boxed{}$ pounds

5. A jug holds $6\frac{1}{4}$ cups of lemonade. The class drinks $3\frac{2}{4}$ cups. How much lemonade is left?

_____ $\boxed{}$ cups

6. Ben paints for $1\frac{2}{3}$ hours on Saturday and $2\frac{2}{3}$ hours on Sunday. How long does he paint in all?

_____ $\boxed{}$ hours

Mixed Numbers

Write mixed numbers as fractions, and fractions as mixed numbers.

Break each mixed number into wholes and a fraction. Write the fraction.

Example



$$2\frac{3}{5} = \frac{5}{5} + \frac{5}{5} + \frac{3}{5} = \frac{13}{5}$$

Wholes and a fraction Fraction

1.



$$1\frac{5}{12} = \frac{12}{12} + \frac{5}{12} = \frac{17}{12}$$

2.



$$2\frac{7}{8} = \frac{8}{8} + \frac{8}{8} + \frac{7}{8} = \frac{23}{8}$$

3.



$$1\frac{9}{10} = \frac{10}{10} + \frac{9}{10} = \frac{19}{10}$$

Shade the fraction. Break it into wholes. Write the mixed number.

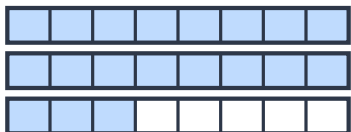
Example



$$\frac{11}{5} = \frac{5}{5} + \frac{5}{5} + \frac{1}{5} = 2\frac{1}{5}$$

Wholes and the rest Mixed number

4.



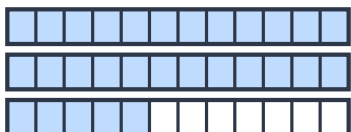
$$\frac{19}{6} = \frac{8}{6} + \frac{8}{6} + \frac{3}{6} = 2\frac{3}{6}$$

5.



$$\frac{13}{6} = \frac{10}{6} + \frac{3}{6} = 1\frac{3}{6}$$

6.



$$\frac{29}{10} = \frac{12}{10} + \frac{12}{10} + \frac{5}{10} = 2\frac{5}{10}$$

Mixed Numbers

Add the wholes, then the fractions. Trade to make 1 whole.

Add the wholes. Add the fractions. Then put them together.

Example

$$2\frac{1}{5} + 1\frac{3}{5} = \boxed{3} + \frac{\boxed{4}}{5} = \boxed{3\frac{4}{5}}$$

Wholes Fractions Answer

$$1. \quad 4\frac{3}{10} + 2\frac{4}{10} = \boxed{6} + \frac{\boxed{7}}{10} = \boxed{6\frac{7}{10}}$$

$$2. \quad 1\frac{1}{8} + 3\frac{4}{8} = \boxed{4} + \frac{\boxed{5}}{8} = \boxed{4\frac{5}{8}}$$

$$3. \quad 5\frac{2}{12} + 1\frac{3}{12} = \boxed{6} + \frac{\boxed{5}}{12} = \boxed{6\frac{5}{12}}$$

The fractions make more than 1 whole. Trade to make 1 whole.

Example

$$2\frac{4}{5} + 1\frac{3}{5} = \boxed{3} \frac{\boxed{7}}{5} = \boxed{3} + 1\frac{\boxed{2}}{5} = \boxed{4\frac{2}{5}}$$

Add both parts Trade Answer

$$4. \quad 3\frac{3}{4} + 2\frac{2}{4} = \boxed{5} \frac{\boxed{5}}{4} = \boxed{5} + 1\frac{\boxed{1}}{4} = \boxed{6\frac{1}{4}}$$

$$5. \quad 2\frac{5}{6} + 1\frac{2}{6} = \boxed{3} \frac{\boxed{7}}{6} = \boxed{3} + 1\frac{\boxed{1}}{6} = \boxed{4\frac{1}{6}}$$

$$6. \quad 4\frac{7}{10} + 3\frac{6}{10} = \boxed{7} \frac{\boxed{13}}{10} = \boxed{7} + 1\frac{\boxed{3}}{10} = \boxed{8\frac{3}{10}}$$

$$7. \quad 1\frac{2}{3} + 3\frac{2}{3} = \boxed{4} \frac{\boxed{4}}{3} = \boxed{4} + 1\frac{\boxed{1}}{3} = \boxed{5\frac{1}{3}}$$

Mixed Numbers

Subtract the wholes and the fractions. Trade 1 whole if needed.

Subtract the wholes. Subtract the fractions. Then put them together.

Example

$$4\frac{5}{8} - 1\frac{2}{8} = \boxed{3} + \frac{\boxed{3}}{8} = \boxed{3\frac{3}{8}}$$

Wholes Fractions Answer

$$1. \quad 5\frac{9}{10} - 2\frac{2}{10} = \boxed{3} + \frac{\boxed{7}}{10} = \boxed{3\frac{7}{10}}$$

$$2. \quad 6\frac{4}{5} - 3\frac{1}{5} = \boxed{3} + \frac{\boxed{3}}{5} = \boxed{3\frac{3}{5}}$$

$$3. \quad 3\frac{11}{12} - 1\frac{6}{12} = \boxed{2} + \frac{\boxed{5}}{12} = \boxed{2\frac{5}{12}}$$

The top fraction is too small. Trade 1 whole first.

Example

$$5\frac{1}{4} - 2\frac{2}{4} = \boxed{4} \frac{\boxed{5}}{4} - 2\frac{2}{4} = \boxed{2\frac{3}{4}}$$

Trade 1 whole Answer

$$4. \quad 7\frac{2}{5} - 2\frac{4}{5} = \boxed{6} \frac{\boxed{7}}{5} - 2\frac{4}{5} = \boxed{4\frac{3}{5}}$$

$$5. \quad 4\frac{1}{6} - 1\frac{2}{6} = \boxed{3} \frac{\boxed{7}}{6} - 1\frac{2}{6} = \boxed{2\frac{5}{6}}$$

$$6. \quad 8\frac{3}{10} - 2\frac{6}{10} = \boxed{7} \frac{\boxed{13}}{10} - 2\frac{6}{10} = \boxed{5\frac{7}{10}}$$

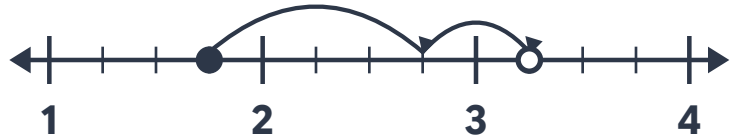
$$7. \quad 5 - 1\frac{3}{8} = \boxed{4} \frac{\boxed{8}}{8} - 1\frac{3}{8} = \boxed{3\frac{5}{8}}$$

Mixed Numbers

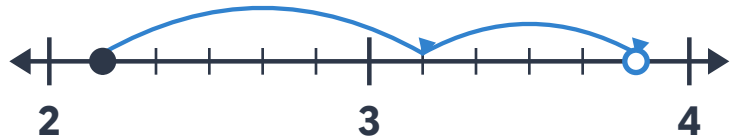
Jump the whole numbers first, then the fraction.

Add. Start at the dot. Jump 1 whole at a time, then the fraction.

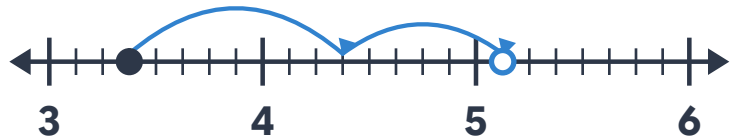
Example $1\frac{3}{4} + 1\frac{2}{4} = 3\frac{1}{4}$



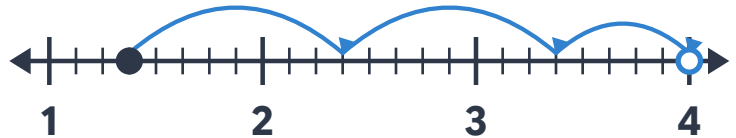
1. $2\frac{1}{6} + 1\frac{4}{6} = 3\frac{5}{6}$



2. $3\frac{3}{8} + 1\frac{6}{8} = 5\frac{1}{8}$



3. $1\frac{3}{8} + 2\frac{5}{8} = 4$

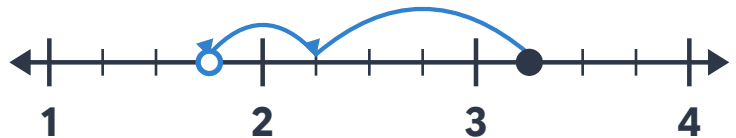


Subtract. Start at the dot. Jump back 1 whole at a time, then the fraction.

Example $4\frac{1}{3} - 1\frac{2}{3} = 2\frac{2}{3}$



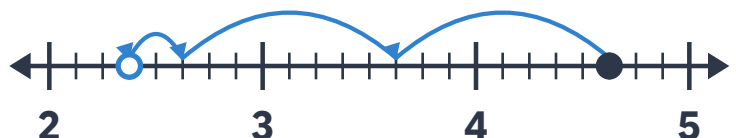
4. $3\frac{1}{4} - 1\frac{2}{4} = 1\frac{3}{4}$



5. $5\frac{2}{5} - 2\frac{4}{5} = 2\frac{3}{5}$



6. $4\frac{5}{8} - 2\frac{2}{8} = 2\frac{3}{8}$



Mixed Numbers

Estimate to check answers. Then solve the story problems.

Round each number to the nearest whole. Does the answer make sense?

Example

$$1\frac{7}{8} + 2\frac{6}{8} = 3\frac{13}{16}$$

Estimate: $2 + 3 = 5$

Does it make sense? Yes **No**

1. $6\frac{1}{8} - 2\frac{6}{8} = 4\frac{5}{8}$

Estimate: $6 - 3 = 3$

Does it make sense? Yes **No**

2. $1\frac{9}{10} + 2\frac{2}{10} = 4\frac{1}{10}$

Estimate: $2 + 2 = 4$

Does it make sense? **Yes** No

3. $6\frac{3}{12} - 1\frac{10}{12} = 4\frac{5}{12}$

Estimate: $6 - 2 = 4$

Does it make sense? **Yes** No

Write an equation. Then solve.

Example

A trail is $3\frac{3}{10}$ miles long. Kai has hiked $1\frac{6}{10}$ miles. How much farther does he have to hike?

$3\frac{3}{10} - 1\frac{6}{10} = 1\frac{7}{10}$
One way

$1\frac{7}{10}$ miles

4. Ella's puppy weighed $4\frac{5}{8}$ pounds. Then it gained $1\frac{6}{8}$ pounds. How much does it weigh now?

$4\frac{5}{8} + 1\frac{6}{8} = 6\frac{3}{8}$
One way

$6\frac{3}{8}$ pounds

5. A jug holds $6\frac{1}{4}$ cups of lemonade. The class drinks $3\frac{2}{4}$ cups. How much lemonade is left?

$6\frac{1}{4} - 3\frac{2}{4} = 2\frac{3}{4}$
One way

$2\frac{3}{4}$ cups

6. Ben paints for $1\frac{2}{3}$ hours on Saturday and $2\frac{2}{3}$ hours on Sunday. How long does he paint in all?

$1\frac{2}{3} + 2\frac{2}{3} = 4\frac{1}{3}$
One way

$4\frac{1}{3}$ hours