

Fraction Word Problems

Use fraction strips to add and subtract. Then write an equation.

Shade the strips to show the story. Write an equation. Then solve.

Example Leo paints $\frac{2}{8}$ of a fence before lunch and $\frac{5}{8}$ of it after lunch. How much of the fence does he paint?



$$\frac{2}{8} + \frac{5}{8} = \frac{7}{8}$$

$$\frac{7}{8}$$

1. A pitcher has $\frac{11}{12}$ liter of juice. Sam pours $\frac{4}{12}$ liter into a glass. How much juice is left in the pitcher?



liter

2. Ana runs $\frac{4}{5}$ mile on Monday and $\frac{3}{5}$ mile on Tuesday. How far does she run in all?



miles

3. A board is $\frac{7}{10}$ meter long. Max saws off $\frac{4}{10}$ meter. How long is the board now?



meter

4. Kim uses $\frac{3}{4}$ cup of milk for pancakes and $\frac{2}{4}$ cup for a smoothie. How much milk does she use?



cups

5. A bag holds 1 pound of trail mix. The class eats $\frac{3}{5}$ pound. How much trail mix is left?



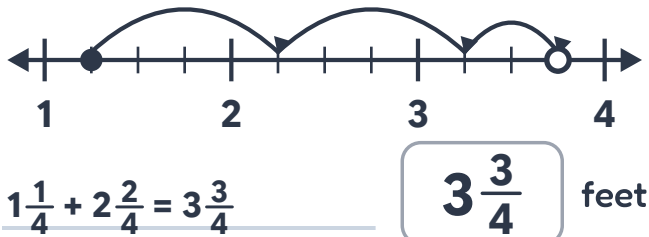
pound

Fraction Word Problems

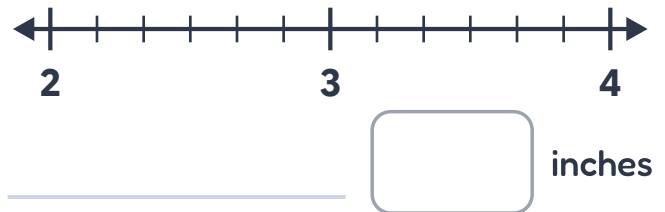
Use number lines to add and subtract mixed numbers.

Start at the first number. Jump 1 whole at a time, then the fraction.

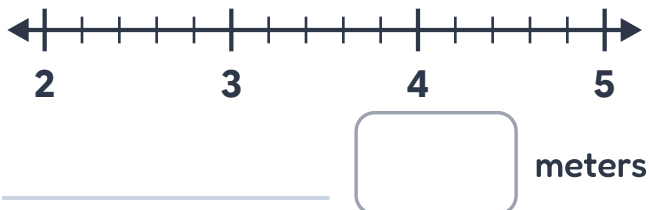
Example A snail crawls $1\frac{1}{4}$ feet before lunch and $2\frac{2}{4}$ feet after lunch. How far does it crawl in all?



1. Maya's plant was $2\frac{5}{6}$ inches tall. It grew $1\frac{1}{6}$ inches. How tall is the plant now?



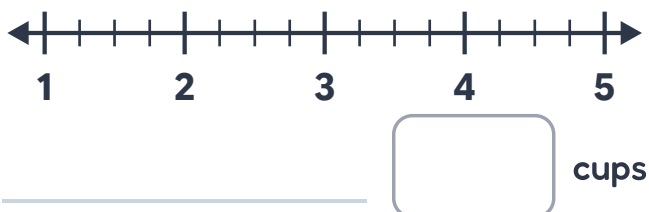
2. A rope is $4\frac{1}{5}$ meters long. Ty cuts off $1\frac{3}{5}$ meters. How long is the rope now?



3. Jo hikes $2\frac{1}{3}$ miles in the morning and $1\frac{1}{3}$ miles after lunch. How far does she hike?



4. A cake needs $4\frac{1}{4}$ cups of flour. Eli has put in $2\frac{2}{4}$ cups. How many more cups does he need?



5. A green snake is $6\frac{1}{3}$ feet long. A brown snake is $4\frac{2}{3}$ feet long. How much longer is the green snake?

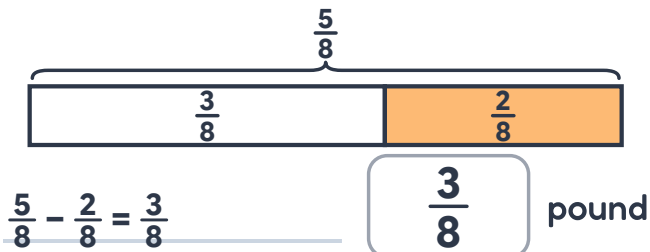


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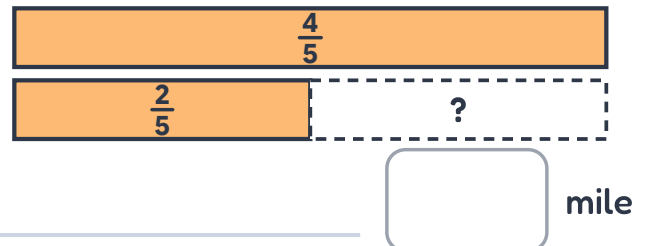
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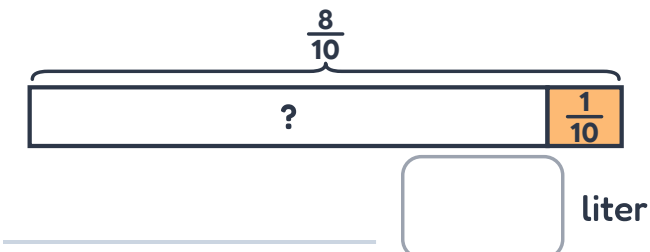
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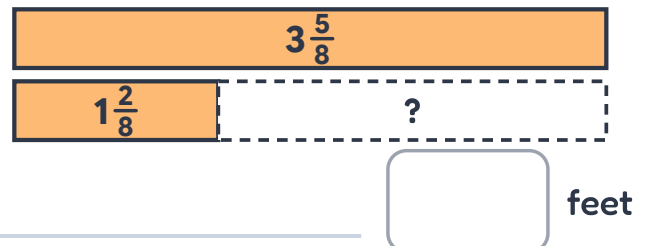
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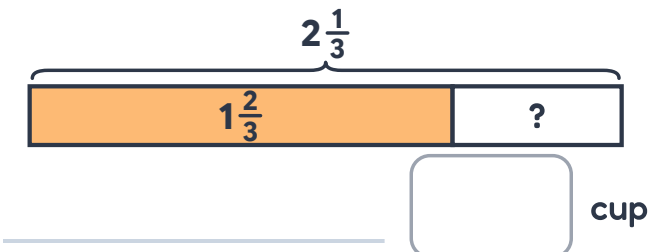
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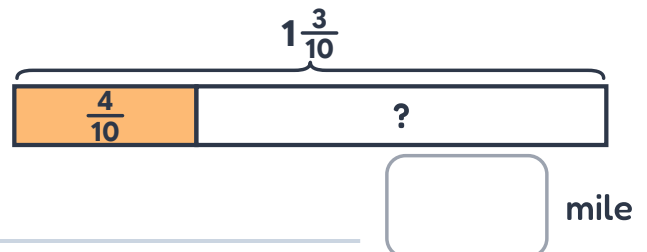
3. A red ribbon is $3\frac{5}{8}$ feet long. A blue ribbon is $1\frac{2}{8}$ feet long. How much longer is the red ribbon?



4. Mo needs $2\frac{1}{3}$ cups of berries for a pie. He has $1\frac{2}{3}$ cups. How many more cups does he need?



5. A path is $1\frac{3}{10}$ miles long. Gus has walked $\frac{4}{10}$ mile of it. How much farther does he have to walk?

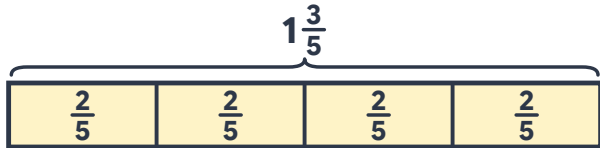


Fraction Word Problems

Multiply a whole number by a fraction. Then estimate.

Use the tape diagram. Write an equation. Then solve.

Example Each cat eats $\frac{2}{5}$ can of food a day. How much do 4 cats eat?

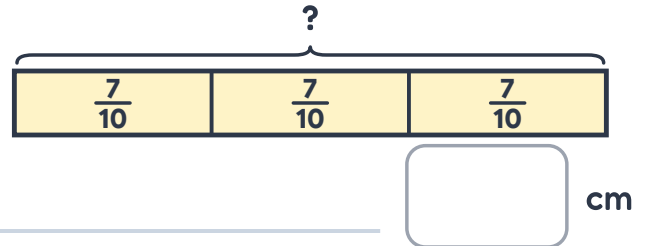


$$4 \times \frac{2}{5} = \frac{8}{5} = 1\frac{3}{5}$$

1 $\frac{3}{5}$ cans

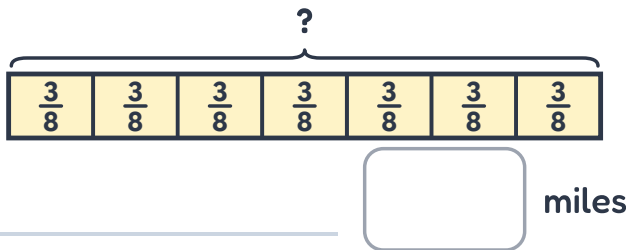
It is between **1** and **2**

1. A bean plant grows $\frac{7}{10}$ cm a day. How much does it grow in 3 days?



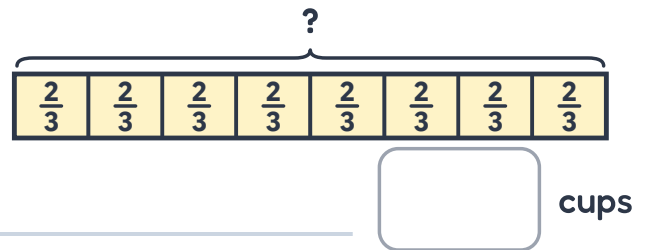
It is between and

2. A bike path is $\frac{3}{8}$ mile. Nia rides it 7 times. How far does she ride?



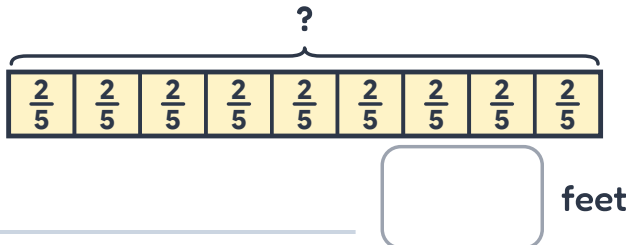
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3. Each batch of slime uses $\frac{2}{3}$ cup of glue. How much do 8 batches use?



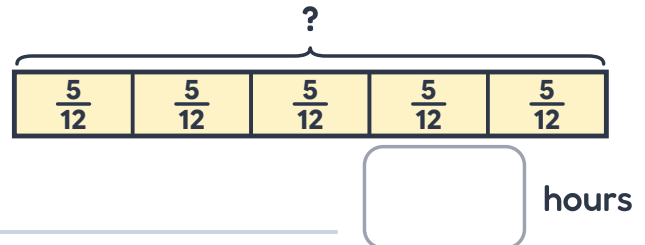
It is between and

4. A tile is $\frac{2}{5}$ foot wide. Ty puts 9 tiles in a row. How long is the row?



It is between and

5. Ms. Lee reads aloud for $\frac{5}{12}$ hour a day. How long is that in 5 days?



It is between and

Fraction Word Problems

Add, subtract or multiply? Use the number line.

Choose +, – or ×. Show it on the number line. Then solve.

Example

Each lap of a track is $\frac{3}{5}$ kilometer. Pia runs 3 laps. How far does she run?



$$3 \times \frac{3}{5} = \frac{9}{5} = 1\frac{4}{5}$$

$1\frac{4}{5}$ km

1. Each of 7 campers drinks $\frac{1}{3}$ liter of water at lunch. How much water do they drink?



_____ liters

2. Nora rides her bike $\frac{5}{6}$ mile to the library, then $\frac{2}{6}$ mile to the park. How far does she ride?



_____ miles

3. Each book is $\frac{5}{8}$ inch thick. How tall is a stack of 3 books?



_____ inches

4. A ribbon is $1\frac{3}{4}$ yards long. Sue uses $\frac{2}{4}$ yard for a bow. How much ribbon is left?



_____ yards

5. Ivan practices piano for $\frac{1}{2}$ hour each day. How long does he practice in 5 days?



_____ hours

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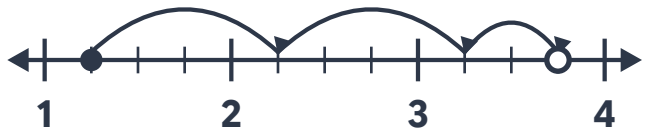
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$$1\frac{1}{4} + 2\frac{2}{4} = 3\frac{3}{4}$$

$3\frac{3}{4}$ feet

1. Maya's plant was $2\frac{5}{6}$ inches tall. It grew $1\frac{1}{6}$ inches. How tall is the plant now?



_____ inches

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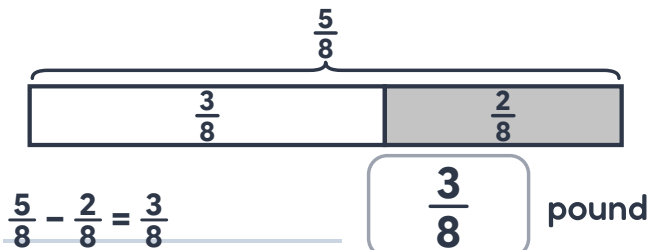
_____ feet

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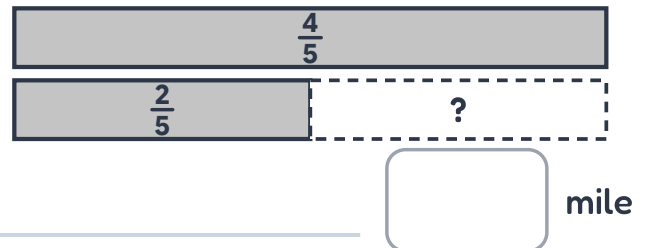
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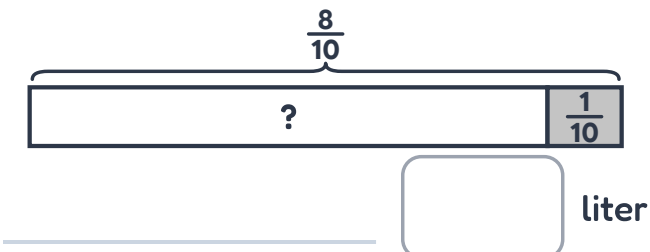
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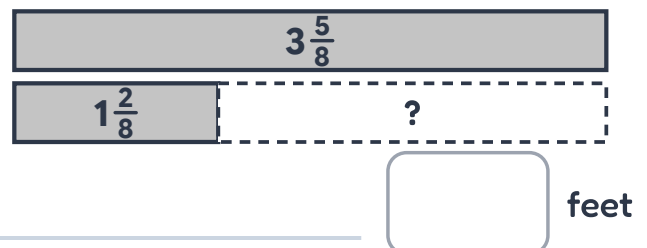
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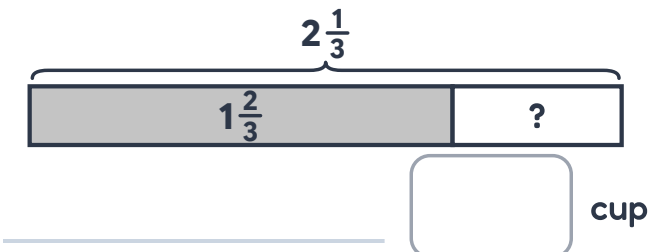
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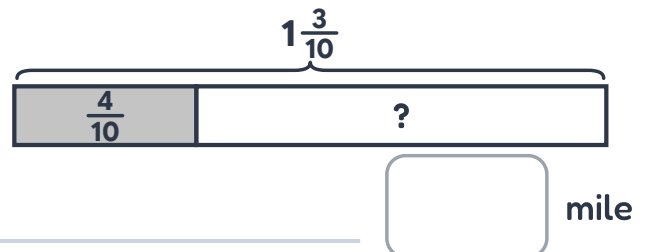
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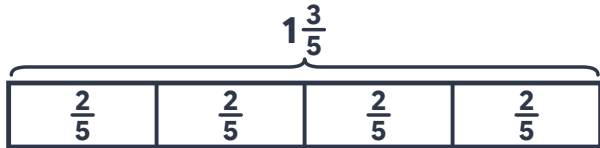


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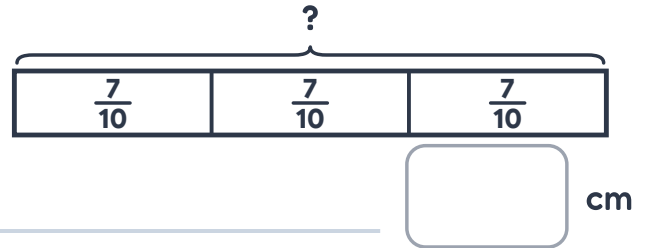


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1 $\frac{3}{5}$ cans

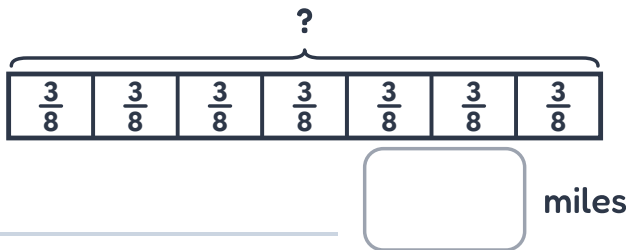
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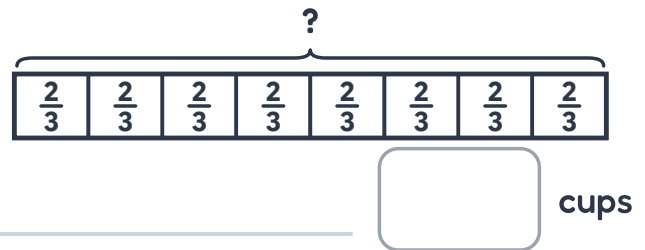
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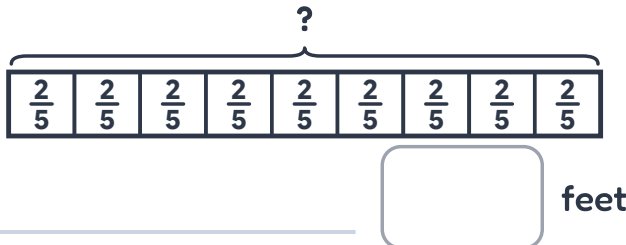
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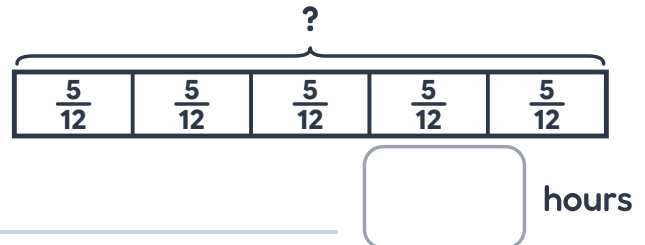
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It is between and

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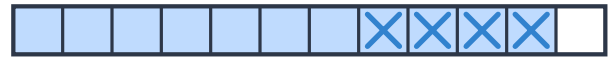


$$\frac{2}{8} + \frac{5}{8} = \frac{7}{8}$$

One way

$$\frac{7}{8}$$

1. A pitcher has $\frac{11}{12}$ liter of juice. Sam pours $\frac{4}{12}$ liter into a glass. How much juice is left in the pitcher?



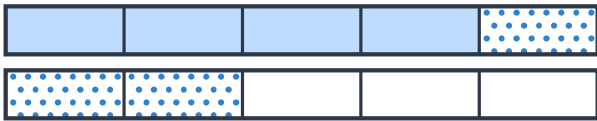
$$\frac{11}{12} - \frac{4}{12} = \frac{7}{12}$$

One way

$$\frac{7}{12}$$

liter

2. Ana runs $\frac{4}{5}$ mile on Monday and $\frac{3}{5}$ mile on Tuesday. How far does she run in all?



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

One way

$$1\frac{2}{5}$$

miles

3. A board is $\frac{7}{10}$ meter long. Max saws off $\frac{4}{10}$ meter. How long is the board now?



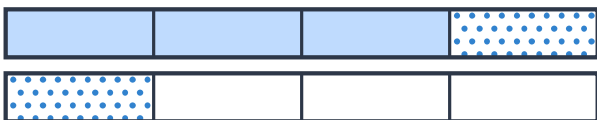
$$\frac{7}{10} - \frac{4}{10} = \frac{3}{10}$$

One way

$$\frac{3}{10}$$

meter

4. Kim uses $\frac{3}{4}$ cup of milk for pancakes and $\frac{2}{4}$ cup for a smoothie. How much milk does she use?



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

One way

$$1\frac{1}{4}$$

cups

5. A bag holds 1 pound of trail mix. The class eats $\frac{3}{5}$ pound. How much trail mix is left?



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

One way

$$\frac{2}{5}$$

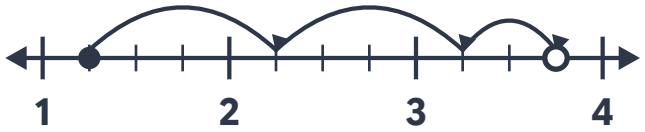
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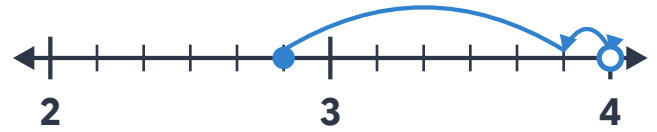


$$1\frac{1}{4} + 2\frac{2}{4} = 3\frac{3}{4}$$

One way

$3\frac{3}{4}$ feet

1. Maya's plant was $2\frac{5}{6}$ inches tall. It grew $1\frac{1}{6}$ inches. How tall is the plant now?

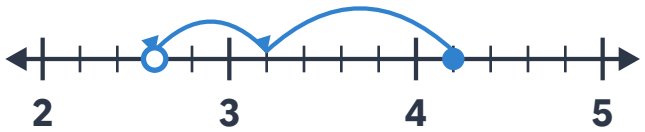


$$2\frac{5}{6} + 1\frac{1}{6} = 4$$

One way

4 inches

2. A rope is $4\frac{1}{5}$ meters long. Ty cuts off $1\frac{3}{5}$ meters. How long is the rope now?

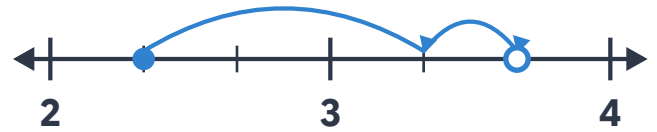


$$4\frac{1}{5} - 1\frac{3}{5} = 2\frac{3}{5}$$

One way

$2\frac{3}{5}$ meters

3. Jo hikes $2\frac{1}{3}$ miles in the morning and $1\frac{1}{3}$ miles after lunch. How far does she hike?



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

One way

$3\frac{2}{3}$ miles

4. A cake needs $4\frac{1}{4}$ cups of flour. Eli has put in $2\frac{2}{4}$ cups. How many more cups does he need?

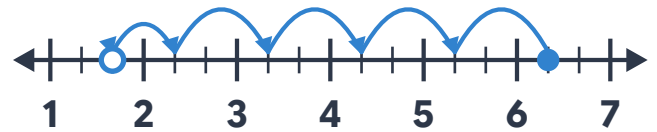


$$4\frac{1}{4} - 2\frac{2}{4} = 1\frac{3}{4}$$

One way

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

5. A green snake is $6\frac{1}{3}$ feet long. A brown snake is $4\frac{2}{3}$ feet long. How much longer is the green snake?



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

One way

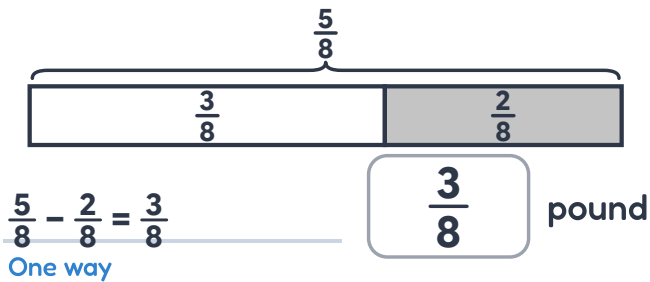
$1\frac{2}{3}$ feet

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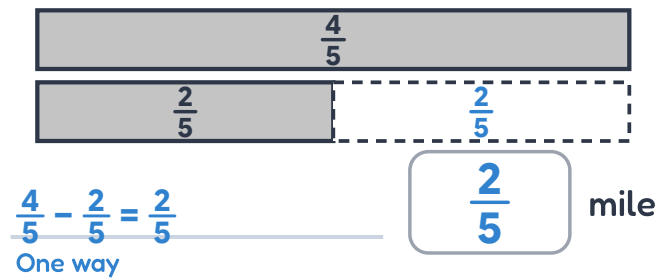
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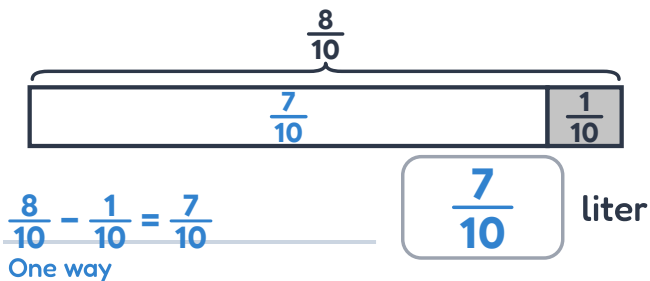
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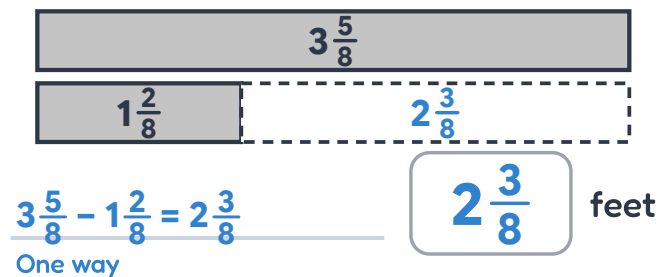
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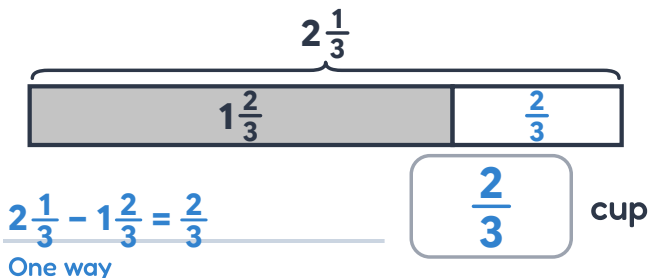
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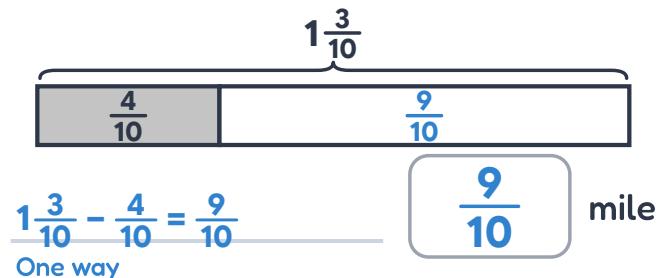
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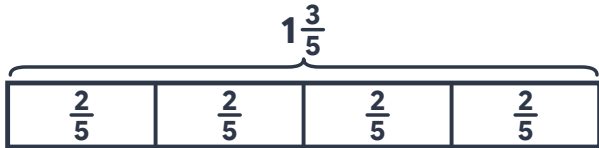


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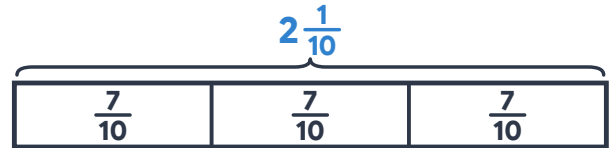
$$4 \times \frac{2}{5} = \frac{8}{5} = 1\frac{3}{5}$$

One way

It is between **1** and **2**

$1\frac{3}{5}$ cans

1. A bean plant grows $\frac{7}{10}$ cm a day. How much does it grow in 3 days?



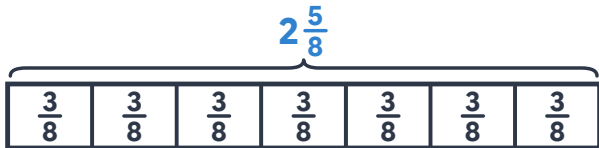
$$3 \times \frac{7}{10} = \frac{21}{10} = 2\frac{1}{10}$$

One way

It is between **2** and **3**

$2\frac{1}{10}$ cm

2. A bike path is $\frac{3}{8}$ mile. Nia rides it 7 times. How far does she ride?



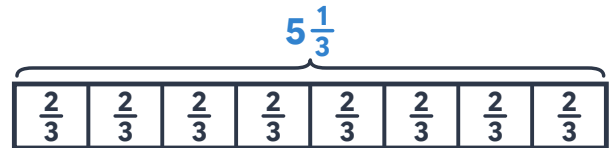
$$7 \times \frac{3}{8} = \frac{21}{8} = 2\frac{5}{8}$$

One way

It is between **2** and **3**

$2\frac{5}{8}$ miles

3. Each batch of slime uses $\frac{2}{3}$ cup of glue. How much do 8 batches use?



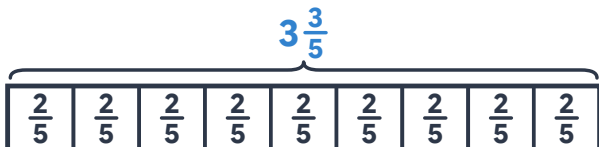
$$8 \times \frac{2}{3} = \frac{16}{3} = 5\frac{1}{3}$$

One way

It is between **5** and **6**

$5\frac{1}{3}$ cups

4. A tile is $\frac{2}{5}$ foot wide. Ty puts 9 tiles in a row. How long is the row?



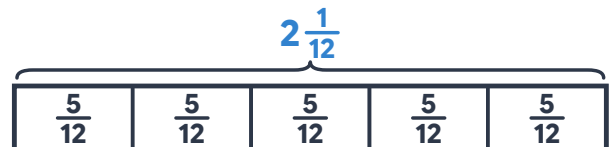
$$9 \times \frac{2}{5} = \frac{18}{5} = 3\frac{3}{5}$$

One way

It is between **3** and **4**

$3\frac{3}{5}$ feet

5. Ms. Lee reads aloud for $\frac{5}{12}$ hour a day. How long is that in 5 days?



$$5 \times \frac{5}{12} = \frac{25}{12} = 2\frac{1}{12}$$

One way

It is between **2** and **3**

$2\frac{1}{12}$ hours

Fraction Word Problems

Add, subtract or multiply? Use the number line.

Choose +, – or $\times$. Show it on the number line. Then solve.

Example Each lap of a track is $\frac{3}{5}$ kilometer. Pia runs 3 laps. How far does she run?

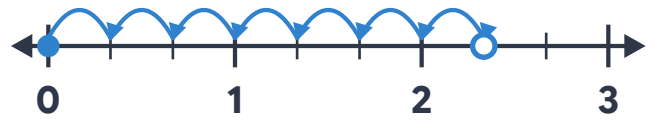


$$3 \times \frac{3}{5} = \frac{9}{5} = 1\frac{4}{5}$$

One way

$$1\frac{4}{5} \text{ km}$$

1. Each of 7 campers drinks $\frac{1}{3}$ liter of water at lunch. How much water do they drink?



$$7 \times \frac{1}{3} = \frac{7}{3} = 2\frac{1}{3}$$

One way

$$2\frac{1}{3} \text{ liters}$$

2. Nora rides her bike $\frac{5}{6}$ mile to the library, then $\frac{2}{6}$ mile to the park. How far does she ride?



$$\frac{5}{6} + \frac{2}{6} = \frac{7}{6} = 1\frac{1}{6}$$

One way

$$1\frac{1}{6} \text{ miles}$$

3. Each book is $\frac{5}{8}$ inch thick. How tall is a stack of 3 books?



$$3 \times \frac{5}{8} = \frac{15}{8} = 1\frac{7}{8}$$

One way

$$1\frac{7}{8} \text{ inches}$$

4. A ribbon is $1\frac{3}{4}$ yards long. Sue uses $\frac{2}{4}$ yard for a bow. How much ribbon is left?



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

One way

$$1\frac{1}{4} \text{ yards}$$

5. Ivan practices piano for $\frac{1}{2}$ hour each day. How long does he practice in 5 days?



$$5 \times \frac{1}{2} = \frac{5}{2} = 2\frac{1}{2}$$

One way

$$2\frac{1}{2} \text{ hours}$$