

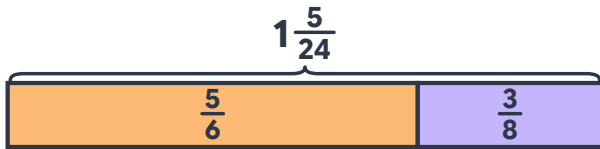
Fraction Word Problems

Add and subtract fractions with unlike denominators.

Estimate with 0, $\frac{1}{2}$ and 1. Write an equation. Then solve.

Example

A frog jumps $\frac{5}{6}$ meter. Then it jumps $\frac{3}{8}$ meter. How far does it jump in all?

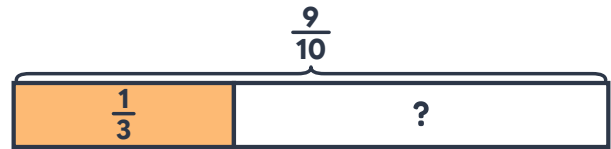


Estimate: $1 + \frac{1}{2} = 1\frac{1}{2}$

$$\frac{5}{6} + \frac{3}{8} = \frac{29}{24} = 1\frac{5}{24}$$

$1\frac{5}{24}$ meters

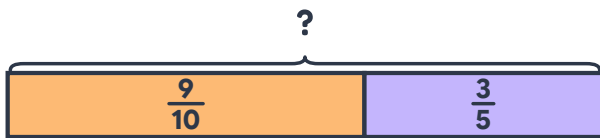
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Estimate: _____

_____ liter

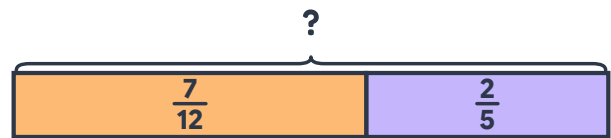
2. Jo spends $\frac{9}{10}$ hour on math and $\frac{3}{5}$ hour on reading. How long does she spend on the two?



Estimate: _____

_____ hours

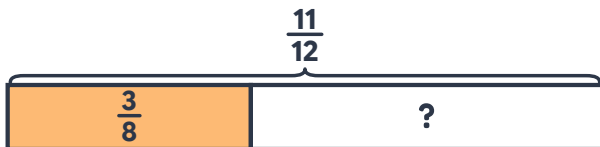
3. A painter mixes $\frac{7}{12}$ gallon of blue paint with $\frac{2}{5}$ gallon of white paint. How much paint is in the mix?



Estimate: _____

_____ gallon

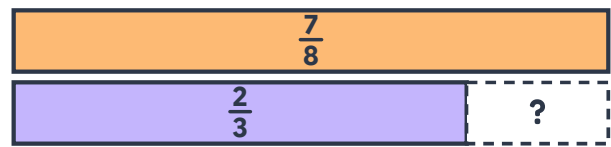
4. Ella wants to swim $\frac{11}{12}$ kilometer. She has swum $\frac{3}{8}$ kilometer. How much farther does she need to swim?



Estimate: _____

_____ km

5. It rained $\frac{7}{8}$ inch on Monday and $\frac{2}{3}$ inch on Tuesday. How much more did it rain on Monday?



Estimate: _____

_____ inch

Fraction Word Problems

Add and subtract mixed numbers with unlike denominators.

Estimate with whole numbers first. Then solve. Show your work.

Example A trail has two parts, $2\frac{3}{4}$ miles and $1\frac{5}{6}$ miles long. How long is the whole trail?

Estimate: $3 + 2 = 5$

$$\begin{aligned}\text{Work: } 2\frac{3}{4} + 1\frac{5}{6} &= 2\frac{9}{12} + 1\frac{10}{12} \\ &= 3\frac{19}{12} = 4\frac{7}{12}\end{aligned}$$

Answer: $4\frac{7}{12}$ miles

1. Dev has $5\frac{1}{6}$ yards of fabric. He uses $2\frac{3}{8}$ yards to make a costume. How much fabric is left?

Estimate: _____

Work:

Answer: yards

2. Nia's sunflower is $6\frac{1}{3}$ feet tall. Her bean plant is $4\frac{5}{8}$ feet tall. How much taller is the sunflower?

Estimate: _____

Work:

Answer: feet

3. A puppy ate $3\frac{7}{10}$ pounds of food in May and $2\frac{4}{5}$ pounds in June. How much food did it eat in all?

Estimate: _____

Work:

Answer: pounds

4. A fish tank holds $4\frac{1}{4}$ gallons. Rosa has poured in $1\frac{2}{3}$ gallons. How many more gallons will fill the tank?

Estimate: _____

Work:

Answer: gallons

5. A roll of paper is $7\frac{5}{12}$ feet long. The class uses $3\frac{1}{6}$ feet for a mural. How much paper is left on the roll?

Estimate: _____

Work:

Answer: feet

Fraction Word Problems

Multiply fractions, whole numbers and mixed numbers.

Shade or fill in each model. Write an equation. Then solve.

Example

A shelf has 30 books. $\frac{2}{5}$ of the books are about animals. How many books are about animals?



$$\frac{2}{5} \times 30 = 12$$

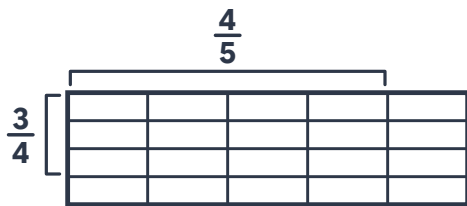
12 books

1. Ben has 6 yards of rope. He uses $\frac{3}{8}$ of the rope to set up a tent. How much rope does he use?

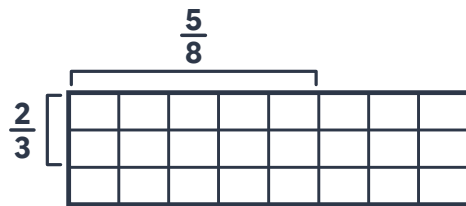


_____ yards

2. Kai's yard is $\frac{4}{5}$ grass. He mows $\frac{3}{4}$ of the grass before lunch. What part of the whole yard has he mowed?

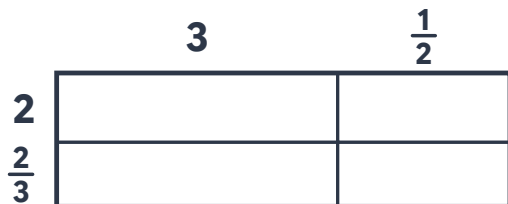


3. A path is $\frac{5}{8}$ mile long. Trees shade $\frac{2}{3}$ of the path. How long is the shaded part of the path?



_____ mile

4. A poster is $3\frac{1}{2}$ feet long and $2\frac{2}{3}$ feet wide. How many square feet of wall does it cover?



_____ sq ft

5. Sam's dog walk is $2\frac{2}{5}$ kilometers long. He jogs $\frac{5}{6}$ of the way. How far does he jog?



_____ km

Fraction Word Problems

Divide with unit fractions. A fraction is also a division.

Use the model to divide. Write an equation. Then solve.

Example 4 hikers share $\frac{1}{4}$ pound of trail mix equally. How much trail mix does each hiker get?



$$\frac{1}{4} \div 4 = \frac{1}{16}$$

 $\frac{1}{16}$

pound

1. A 6 mile trail is split into parts that are each $\frac{1}{3}$ mile long. How many parts are there?



_____ parts

2. 3 friends share $\frac{1}{8}$ of a sheet of stickers equally. What part of a whole sheet does each get?



_____ sheet

3. An 8 pound bag of rice is split into packs of $\frac{1}{2}$ pound. How many packs are there?



_____ packs

Share equally. Write the division, then each share as a fraction.

Example 6 friends share 5 pies equally. How much does each get?

$$5 \div 6 = \frac{5}{6} \text{ pie}$$

4. 8 kids share 3 pizzas equally. How much does each kid get?

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5. 4 runners share 7 liters of water equally. How much does each get?

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6. 10 feet of rope is cut into 6 equal pieces. How long is each piece?

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Fraction Word Problems

Solve stories in two steps. Choose the equation that fits.

Solve in two steps. Write an equation for each step.

Example Kim buys $\frac{3}{4}$ pound of grapes and $\frac{5}{8}$ pound of cherries. Her family eats $\frac{1}{2}$ pound of the fruit. How much fruit is left?

Step 1: $\frac{3}{4} + \frac{5}{8} = 1\frac{3}{8}$ _____

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Answer:

$\frac{7}{8}$

pound

1. A bike trail is 12 miles long. Rob rides $\frac{5}{6}$ of the trail in the morning. After lunch he rides $1\frac{1}{4}$ miles more. How far does he ride in all?

Step 1: _____

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Answer:

miles

2. Ana buys 2 bags of birdseed. Each bag holds $3\frac{1}{2}$ pounds. She puts $\frac{1}{4}$ pound in the feeder each day. How many days will the seed last?

Step 1: _____

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days

Circle the equation that fits the story.

3. Max bakes $\frac{2}{3}$ of his $2\frac{1}{4}$ cups of nuts into bread. How many cups of nuts go into the bread?

$2\frac{1}{4} - \frac{2}{3}$ $\frac{2}{3} \times 2\frac{1}{4}$ $2\frac{1}{4} + \frac{2}{3}$

4. $\frac{1}{5}$ of a field is cut into 8 equal garden plots. What part of the whole field is each plot?

$\frac{1}{5} \div 8$ $8 \div \frac{1}{5}$ $8 \times \frac{1}{5}$

5. Each doll scarf uses $\frac{1}{4}$ yard of yarn. How many scarves can Pia make with 6 yards of yarn?

$6 \times \frac{1}{4}$ $\frac{1}{4} \div 6$ $6 \div \frac{1}{4}$

6. A melon weighs $3\frac{1}{4}$ pounds. A squash weighs $\frac{5}{6}$ pound. How much heavier is the melon?

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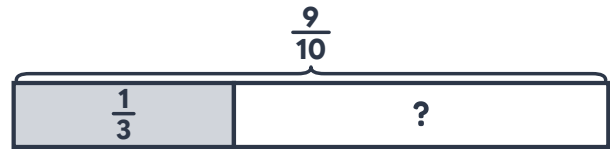


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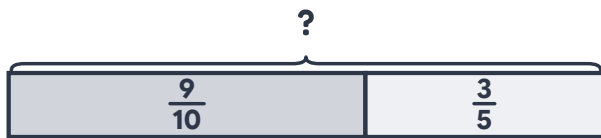
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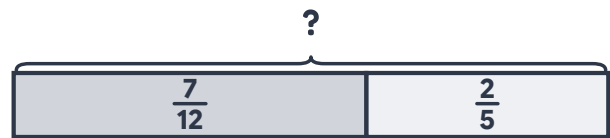
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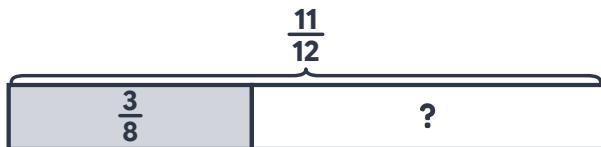
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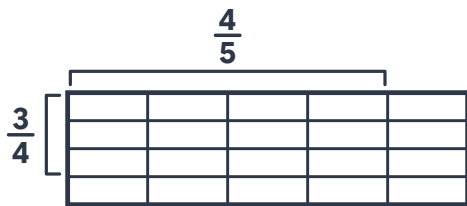
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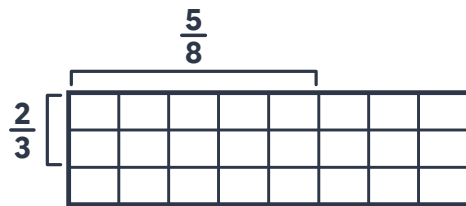


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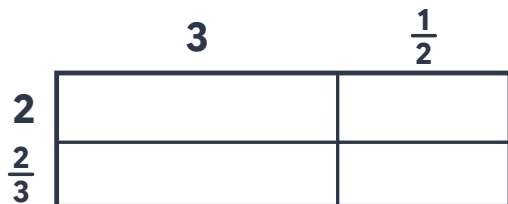


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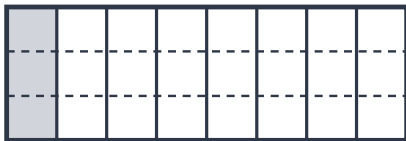
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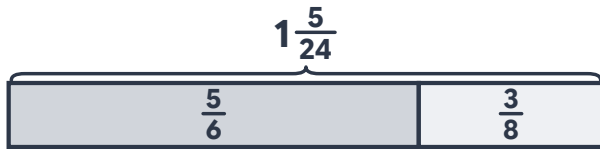
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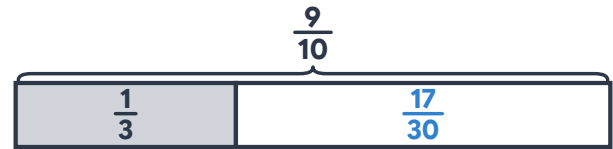


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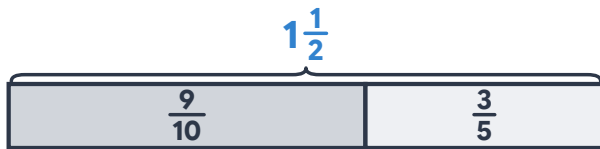
Estimate: $1 - \frac{1}{2} = \frac{1}{2}$

$$\frac{9}{10} - \frac{1}{3} = \frac{17}{30}$$

One way

$\frac{17}{30}$ liter

2. Jo spends $\frac{9}{10}$ hour on math and $\frac{3}{5}$ hour on reading. How long does she spend on the two?



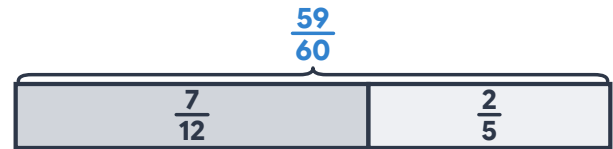
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$1\frac{1}{2}$ hours

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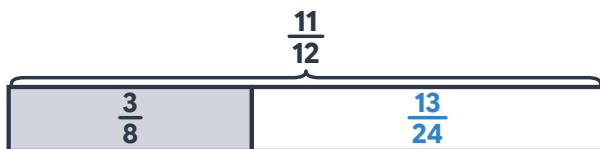
Estimate: $\frac{1}{2} + \frac{1}{2} = 1$

$$\frac{7}{12} + \frac{2}{5} = \frac{59}{60}$$

One way

$\frac{59}{60}$ gallon

4. Ella wants to swim $\frac{11}{12}$ kilometer. She has swum $\frac{3}{8}$ kilometer. How much farther does she need to swim?



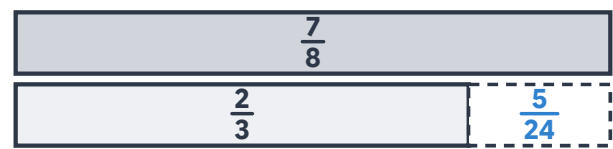
Estimate: $1 - \frac{1}{2} = \frac{1}{2}$

$$\frac{11}{12} - \frac{3}{8} = \frac{13}{24}$$

One way

$\frac{13}{24}$ km

5. It rained $\frac{7}{8}$ inch on Monday and $\frac{2}{3}$ inch on Tuesday. How much more did it rain on Monday?



Estimate: $1 - \frac{1}{2} = \frac{1}{2}$

$$\frac{7}{8} - \frac{2}{3} = \frac{5}{24}$$

One way

$\frac{5}{24}$ inch

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Answer: $4\frac{7}{12}$ miles

1. Dev has $5\frac{1}{6}$ yards of fabric. He uses $2\frac{3}{8}$ yards to make a costume. How much fabric is left?

Estimate: $5 - 2 = 3$

$$\begin{aligned}\text{Work: } 5\frac{1}{6} - 2\frac{3}{8} &= 5\frac{4}{24} - 2\frac{9}{24} \\ \text{One way} &= 4\frac{28}{24} - 2\frac{9}{24} = 2\frac{19}{24}\end{aligned}$$

Answer: $2\frac{19}{24}$ yards

2. Nia's sunflower is $6\frac{1}{3}$ feet tall. Her bean plant is $4\frac{5}{8}$ feet tall. How much taller is the sunflower?

Estimate: $6 - 4 = 2$

$$\begin{aligned}\text{Work: } 6\frac{1}{3} - 4\frac{5}{8} &= 6\frac{8}{24} - 4\frac{15}{24} \\ \text{One way} &= 5\frac{32}{24} - 4\frac{15}{24} = 1\frac{17}{24}\end{aligned}$$

Answer: $1\frac{17}{24}$ feet

3. A puppy ate $3\frac{7}{10}$ pounds of food in May and $2\frac{4}{5}$ pounds in June. How much food did it eat in all?

Estimate: $4 + 3 = 7$

$$\begin{aligned}\text{Work: } 3\frac{7}{10} + 2\frac{4}{5} &= 3\frac{7}{10} + 2\frac{8}{10} \\ \text{One way} &= 5\frac{15}{10} = 6\frac{1}{2}\end{aligned}$$

Answer: $6\frac{1}{2}$ pounds

4. A fish tank holds $4\frac{1}{4}$ gallons. Rosa has poured in $1\frac{2}{3}$ gallons. How many more gallons will fill the tank?

Estimate: $4 - 1 = 3$

$$\begin{aligned}\text{Work: } 4\frac{1}{4} - 1\frac{2}{3} &= 4\frac{3}{12} - 1\frac{8}{12} \\ \text{One way} &= 3\frac{15}{12} - 1\frac{8}{12} = 2\frac{7}{12}\end{aligned}$$

Answer: $2\frac{7}{12}$ gallons

5. A roll of paper is $7\frac{5}{12}$ feet long. The class uses $3\frac{1}{6}$ feet for a mural. How much paper is left on the roll?

Estimate: $7 - 3 = 4$

$$\begin{aligned}\text{Work: } 7\frac{5}{12} - 3\frac{1}{6} &= 7\frac{5}{12} - 3\frac{2}{12} \\ \text{One way} &= 4\frac{3}{12} = 4\frac{1}{4}\end{aligned}$$

Answer: $4\frac{1}{4}$ feet

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Multiply fractions, whole numbers and mixed numbers.

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Example

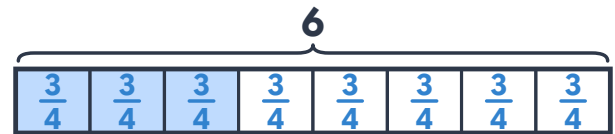
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12 books

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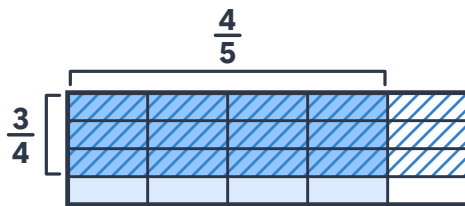


$$\frac{3}{8} \times 6 = 2\frac{1}{4}$$

One way

$2\frac{1}{4}$ yards

2. Kai's yard is $\frac{4}{5}$ grass. He mows $\frac{3}{4}$ of the grass before lunch. What part of the whole yard has he mowed?

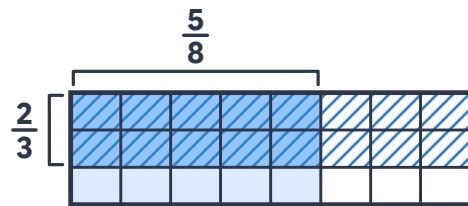


$$\frac{3}{4} \times \frac{4}{5} = \frac{12}{20} = \frac{3}{5}$$

One way

$\frac{3}{5}$

3. A path is $\frac{5}{8}$ mile long. Trees shade $\frac{2}{3}$ of the path. How long is the shaded part of the path?

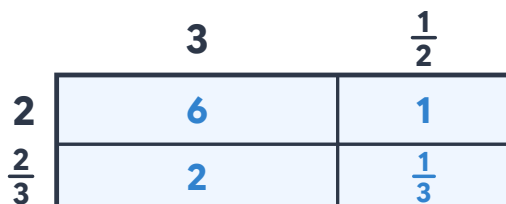


$$\frac{2}{3} \times \frac{5}{8} = \frac{5}{12}$$

One way

$\frac{5}{12}$ mile

4. A poster is $3\frac{1}{2}$ feet long and $2\frac{2}{3}$ feet wide. How many square feet of wall does it cover?

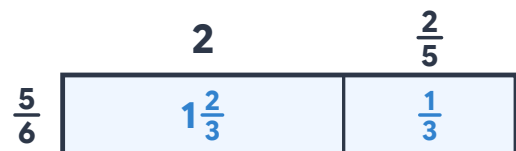


$$3\frac{1}{2} \times 2\frac{2}{3} = 9\frac{1}{3}$$

One way

$9\frac{1}{3}$ sq ft

5. Sam's dog walk is $2\frac{2}{5}$ kilometers long. He jogs $\frac{5}{6}$ of the way. How far does he jog?



$$\frac{5}{6} \times 2\frac{2}{5} = 2$$

One way

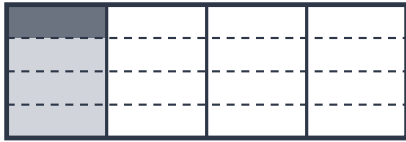
2 km

Fraction Word Problems

Divide with unit fractions. A fraction is also a division.

Use the model to divide. Write an equation. Then solve.

Example 4 hikers share $\frac{1}{4}$ pound of trail mix equally. How much trail mix does each hiker get?

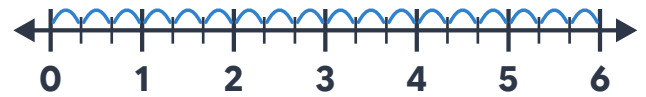


$$\frac{1}{4} \div 4 = \frac{1}{16}$$

$$\frac{1}{16}$$

pound

1. A 6 mile trail is split into parts that are each $\frac{1}{3}$ mile long. How many parts are there?



$$6 \div \frac{1}{3} = 18$$

One way

$$18$$

parts

2. 3 friends share $\frac{1}{8}$ of a sheet of stickers equally. What part of a whole sheet does each get?



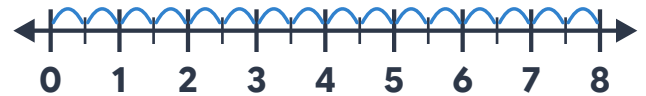
$$\frac{1}{8} \div 3 = \frac{1}{24}$$

One way

$$\frac{1}{24}$$

sheet

3. An 8 pound bag of rice is split into packs of $\frac{1}{2}$ pound. How many packs are there?



$$8 \div \frac{1}{2} = 16$$

One way

$$16$$

packs

Share equally. Write the division, then each share as a fraction.

Example 6 friends share 5 pies equally. How much does each get?

$$5 \div 6 = \frac{5}{6} \text{ pie}$$

4. 8 kids share 3 pizzas equally. How much does each kid get?

$$3 \div 8 = \frac{3}{8} \text{ pizza}$$

5. 4 runners share 7 liters of water equally. How much does each get?

$$7 \div 4 = \frac{7}{4} = 1\frac{3}{4} \text{ liters}$$

6. 10 feet of rope is cut into 6 equal pieces. How long is each piece?

$$10 \div 6 = \frac{10}{6} = 1\frac{2}{3} \text{ feet}$$

Fraction Word Problems

Solve stories in two steps. Choose the equation that fits.

Solve in two steps. Write an equation for each step.

Example Kim buys $\frac{3}{4}$ pound of grapes and $\frac{5}{8}$ pound of cherries. Her family eats $\frac{1}{2}$ pound of the fruit. How much fruit is left?

Step 1: $\frac{3}{4} + \frac{5}{8} = 1\frac{3}{8}$

Step 2: $1\frac{3}{8} - \frac{1}{2} = \frac{7}{8}$

Answer: $\frac{7}{8}$ pound

1. A bike trail is 12 miles long. Rob rides $\frac{5}{6}$ of the trail in the morning. After lunch he rides $1\frac{1}{4}$ miles more. How far does he ride in all?

Step 1: $\frac{5}{6} \times 12 = 10$ One way

Step 2: $10 + 1\frac{1}{4} = 11\frac{1}{4}$

Answer: $11\frac{1}{4}$ miles

2. Ana buys 2 bags of birdseed. Each bag holds $3\frac{1}{2}$ pounds. She puts $\frac{1}{4}$ pound in the feeder each day. How many days will the seed last?

Step 1: $2 \times 3\frac{1}{2} = 7$ One way

Step 2: $7 \div \frac{1}{4} = 28$

Answer: 28 days

Circle the equation that fits the story.

3. Max bakes $\frac{2}{3}$ of his $2\frac{1}{4}$ cups of nuts into bread. How many cups of nuts go into the bread?

$2\frac{1}{4} - \frac{2}{3}$ $\frac{2}{3} \times 2\frac{1}{4}$ $2\frac{1}{4} + \frac{2}{3}$

4. $\frac{1}{5}$ of a field is cut into 8 equal garden plots. What part of the whole field is each plot?

$\frac{1}{5} \div 8$ $8 \div \frac{1}{5}$ $8 \times \frac{1}{5}$

5. Each doll scarf uses $\frac{1}{4}$ yard of yarn. How many scarves can Pia make with 6 yards of yarn?

$6 \times \frac{1}{4}$ $\frac{1}{4} \div 6$ $6 \div \frac{1}{4}$

6. A melon weighs $3\frac{1}{4}$ pounds. A squash weighs $\frac{5}{6}$ pound. How much heavier is the melon?

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