

## ★ Add Fractions

Children use practical equipment and pictorial representations to add two or more fractions with the same denominator where the total is less than 1. They understand that we only add the numerators and the denominators stay the same.

On this sheet, they will solve one-step word problems.

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## ★★ Add Fractions

Children use practical equipment and pictorial representations to add two or more fractions with the same denominator where the total is less than 1. They understand that we only add the numerators and the denominators stay the same.

On this sheet, they will solve two-step word problems.

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## ★★★ Add Fractions

Children use practical equipment and pictorial representations to add two or more fractions with the same denominator where the total is less than 1. They understand that we only add the numerators and the denominators stay the same.

On this sheet, they will solve multi-step word problems.

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## Reasoning & Problem Solving

### Add Fractions

Children continue solving word problems.

They will solve reasoning questions and complete possible answers for the given word problem.

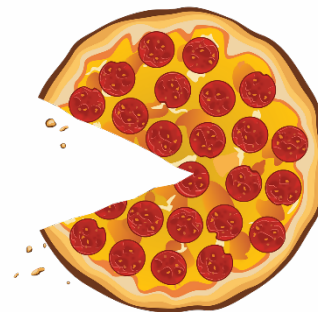


Zach and Malachi eat pizza.

Zach eats  $\frac{3}{8}$  of the pizza.

and Malachi eats  $\frac{5}{8}$  of the pizza.

What fraction of the pizza do they eat altogether?



A runner jogs  $\frac{2}{9}$  of a mile east

and  $\frac{5}{9}$  of a mile south.

How far has he jogged?

Rosie drinks  $\frac{4}{12}$  of the lemonade

and Esin drinks  $\frac{7}{12}$  of the lemonade.

What fraction of the lemonade do they drink altogether?



Leanna uses  $\frac{6}{10}$  of all of the beads for her necklace

and Tia uses  $\frac{3}{10}$  of all of the beads for her bracelet.

Which fraction of beads do they use altogether?





Zach and Malachi eat pizza.

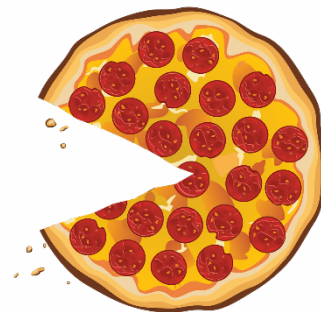
Zach eats  $\frac{3}{8}$  of the pizza.

and Malachi eats  $\frac{5}{8}$  of the pizza.

What fraction of the pizza do they eat altogether?

They eat  $\frac{8}{8}$  of the pizza.

$$\frac{3}{8} + \frac{5}{8} = \frac{8}{8}$$



A runner jogs  $\frac{2}{9}$  of a mile east

and  $\frac{5}{9}$  of a mile south.

How far has he jogged?

$$\frac{2}{9} + \frac{5}{9} = \frac{7}{9}$$

He has jogged  $\frac{7}{9}$  of a mile.

Rosie drinks  $\frac{4}{12}$  of the lemonade

and Esin drinks  $\frac{7}{12}$  of the lemonade.

What fraction of the lemonade do they drink altogether?

They drink  $\frac{11}{12}$  of the lemonade.

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



Leanna uses  $\frac{6}{10}$  of all of the beads for her necklace

and Tia uses  $\frac{3}{10}$  of all of the beads for her bracelet.

Which fraction of beads do they use altogether?

$$\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$$

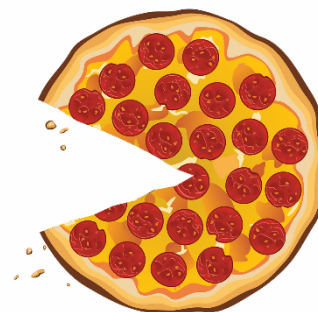
They use  $\frac{9}{10}$  of all beads.



Zach, Malachi and Tia eat pizza.

Zach eats  $\frac{2}{10}$  of the pizza, Malachi eats  $\frac{3}{10}$  of the pizza  
and Tia eats  $\frac{4}{10}$  of the pizza.

What fraction of the pizza do they eat altogether?



A runner jogs  $\frac{4}{11}$  of a mile east,  
 $\frac{3}{11}$  of a mile south and  $\frac{2}{11}$  of a mile west.

How far has he jogged?

Rosie drinks  $\frac{5}{12}$  of the lemonade  
and Esin drinks  $\frac{1}{12}$  of the lemonade more than Rosie drinks.  
What fraction of the lemonade do they drink altogether?



Leanna uses  $\frac{5}{13}$  of all of the beads for her necklace,  
Rosie uses  $\frac{3}{13}$  of all of the beads for her brooch  
and Tia uses  $\frac{4}{13}$  of all of the beads for her bracelet.

Which fraction of beads do they use altogether?



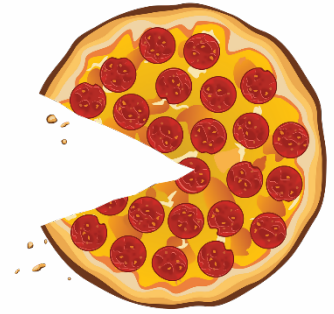
Zach, Malachi and Tia eat pizza.

Zach eats  $\frac{2}{10}$  of the pizza, Malachi eats  $\frac{3}{10}$  of the pizza  
and Tia eats  $\frac{4}{10}$  of the pizza.

What fraction of the pizza do they eat altogether?

They eat  $\frac{9}{10}$  of the pizza.

$$\frac{2}{10} + \frac{3}{10} + \frac{4}{10} = \frac{9}{10}$$



A runner jogs  $\frac{4}{11}$  of a mile east,  
 $\frac{3}{11}$  of a mile south and  $\frac{2}{11}$  of a mile west.

How far has he jogged?

$$\frac{4}{11} + \frac{3}{11} + \frac{2}{11} = \frac{9}{11}$$

He has jogged  $\frac{9}{11}$  of a mile.

Rosie drinks  $\frac{5}{12}$  of the lemonade  
and Esin drinks  $\frac{1}{12}$  of the lemonade more than Rosie drinks.

What fraction of the lemonade do they drink altogether?

They drink  $\frac{11}{12}$  of the lemonade.

$$\frac{5}{12} + \frac{1}{12} = \frac{6}{12}$$

$$\frac{5}{12} + \frac{6}{12} = \frac{11}{12}$$



Leanna uses  $\frac{5}{13}$  of all of the beads for her necklace,

Rosie uses  $\frac{3}{13}$  of all of the beads for her brooch

and Tia uses  $\frac{4}{13}$  of all of the beads for her bracelet.

Which fraction of beads do they use altogether?

$$\frac{5}{13} + \frac{3}{13} + \frac{4}{13} = \frac{12}{13}$$

They use  $\frac{12}{13}$  of the beads.



Zach, Malachi and Tia eat pizza.  
 Zach eats  $\frac{2}{12}$  of the pizza, Malachi eats  $\frac{1}{12}$  of the pizza more  
 than Zach eats  
 and Tia eats  $\frac{2}{12}$  of the pizza more than Malachi eats.

What fraction of the pizza do they eat altogether?



A runner jogs  $\frac{3}{15}$  of a mile east,  
 $\frac{2}{15}$  of a mile more south than east and  $\frac{1}{15}$  of a mile  
 more west than south.

How far has he jogged?

Rosie drinks  $\frac{1}{14}$  of the lemonade,  
 Esin drinks  $\frac{2}{14}$  of the lemonade more than Rosie drinks  
 and Tia drinks as much as Rosie and Esin drink together.  
 What fraction of the lemonade do they drink altogether?



Leanna uses  $\frac{4}{25}$  of all of the beads for her necklace,  
 Rosie uses  $\frac{2}{25}$  more of the beads for her brooch than  
 Leanna uses for her necklace  
 and Tia uses  $\frac{1}{25}$  more of all of the beads for her bracelet  
 than Leanna and Rosie use together.

Which fraction of beads do they use altogether?



Zach, Malachi and Tia eat pizza.  
 Zach eats  $\frac{2}{12}$  of the pizza, Malachi eats  $\frac{1}{12}$  of the pizza more  
 than Zach eats  
 and Tia eats  $\frac{2}{12}$  of the pizza more than Malachi eats.

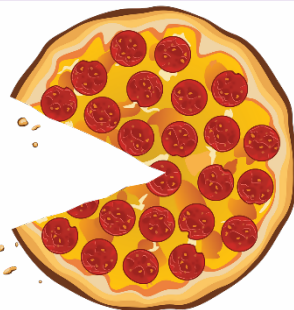
What fraction of the pizza do they eat altogether?

They eat  $\frac{10}{12}$  of the pizza.

$$\text{Malachi eats } \frac{2}{12} + \frac{1}{12} = \frac{3}{12}$$

$$\text{Tia eats } \frac{3}{12} + \frac{2}{12} = \frac{5}{12}$$

$$\frac{2}{12} + \frac{3}{12} + \frac{5}{12} = \frac{10}{12}$$



A runner jogs  $\frac{3}{15}$  of a mile east,

$\frac{2}{15}$  of a mile more south than east and  $\frac{1}{15}$  of a mile  
 more west than south.

$$\frac{3}{15} + \frac{2}{15} = \frac{5}{15} \text{ south,}$$

$$\frac{5}{15} + \frac{1}{15} = \frac{6}{15} \text{ west,}$$

$$\frac{3}{15} + \frac{5}{15} + \frac{6}{15} = \frac{14}{15}$$

How far has he jogged?

He has jogged  $\frac{14}{15}$  of a mile.

Rosie drinks  $\frac{1}{14}$  of the lemonade,

Esin drinks  $\frac{2}{14}$  of the lemonade more than Rosie drinks

and Tia drinks as much as Rosie and Esin drink together.

What fraction of the lemonade do they drink altogether?

They drink  $\frac{8}{14}$  of the lemonade.

$$\frac{1}{14} + \frac{3}{14} + \frac{4}{14} = \frac{8}{14}$$

Esin drinks

$$\frac{1}{14} + \frac{2}{14} = \frac{3}{14}$$

Tia drinks

$$\frac{1}{14} + \frac{3}{14} = \frac{4}{14}$$



Leanna uses  $\frac{4}{25}$  of all beads for her necklace,  
 Rosie uses  $\frac{2}{25}$  more of all beads for her brooch than  
 Leanna uses for her necklace  
 and Tia uses  $\frac{1}{25}$  more of all beads for her bracelet than  
 Leanna and Rosie use together.

Which fraction of beads do they use altogether?

They use  $\frac{21}{25}$  of all beads.

$$\frac{4}{25} + \frac{2}{25} = \frac{6}{25}$$

Rosie uses

$$\frac{4}{25} + \frac{6}{25} = \frac{10}{25}$$

Leanna and  
 Rosie use

$$\frac{10}{25} + \frac{1}{25} = \frac{11}{25}$$

Tia uses

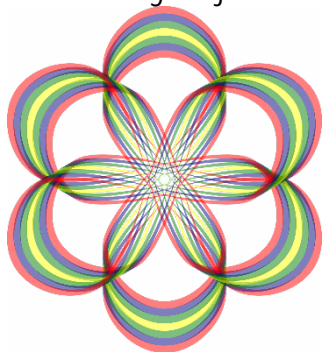
$$\frac{10}{25} + \frac{11}{25} = \frac{21}{25}$$

Rosie cuts her ribbon into six equal parts.

Each part is  $\frac{1}{30}$  m longer than the previous part.

The length of the first part is  $\frac{1}{30}$  m.

What was the length of the ribbon?



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Malachi and Esin share 10 chocolates.

Malachi



Esin



$$\begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array} + \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array} = \frac{10}{10}$$

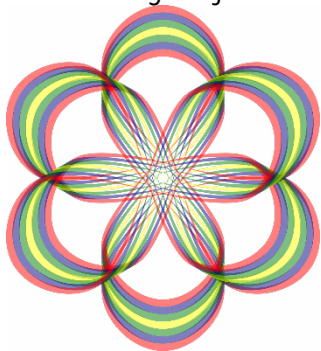
They both eat an odd number of chocolates.  
Complete the number statement above to show what fraction of the chocolates they each could have eaten.

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The length of the first part is  $\frac{1}{30}$  m.

What was the length of the ribbon?

1<sup>st</sup> part:  $\frac{1}{30}$  m,

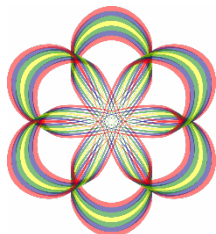
2<sup>nd</sup> part:  $\frac{1}{30} + \frac{1}{30} = \frac{2}{30}$  m,

3<sup>rd</sup> part:  $\frac{2}{30} + \frac{1}{30} = \frac{3}{30}$  m,

4<sup>th</sup> part:  $\frac{3}{30} + \frac{1}{30} = \frac{4}{30}$  m,

5<sup>th</sup> part:  $\frac{4}{30} + \frac{1}{30} = \frac{5}{30}$  m,

6<sup>th</sup> part:  $\frac{5}{30} + \frac{1}{30} = \frac{6}{30}$  m,



Total length:  
 $\frac{21}{30}$  m.

Malachi and Esin share 10 chocolates.

Malachi

Esin



|                |     |                |     |                 |
|----------------|-----|----------------|-----|-----------------|
| $\frac{1}{10}$ | $+$ | $\frac{9}{10}$ | $=$ | $\frac{10}{10}$ |
|----------------|-----|----------------|-----|-----------------|

They both eat an odd number of chocolates.

Complete the number statement above to show what fraction of the chocolates they each could have eaten.

Other answers:

$$\frac{3}{10} + \frac{7}{10} = \frac{10}{10} \quad \text{or} \quad \frac{5}{10} + \frac{5}{10} = \frac{10}{10}$$

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What was the length of the ribbon?

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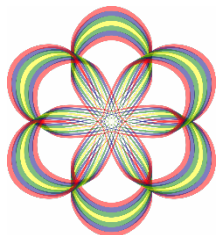
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