

## ★ Subtract Fractions

Children use practical equipment and pictorial representations to subtract fractions with the same denominator within one whole. They understand that we only subtract the numerators and the denominators stay the same.

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

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**Master Problem** **Master Problem**

Jack bought a pizza. He ate  $\frac{2}{8}$  of the pizza. What fraction of the pizza is left?

A rabbit has run  $\frac{1}{4}$  of a mile. He has  $\frac{3}{4}$  of a mile to go. How much further has he to go to reach his house?

Rose drank  $\frac{1}{8}$  of the lemonade. What fraction of the lemonade has Rose got left?

Leanne ate  $\frac{1}{10}$  of the bread for her meal. Rose ate  $\frac{2}{10}$  of the bread for her meal. What fraction of all the bread did they eat together?

## ★★ Subtract Fractions

Children use practical equipment and pictorial representations to subtract fractions with the same denominator within one whole. They understand that we only subtract the numerators and the denominators stay the same.

On this sheet, they will solve two-step word problems involving subtraction and addition.

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**Master Problem** **Master Problem**

Jack and Malachi eat pizza. Jack ate  $\frac{2}{8}$  of the pizza. Malachi ate  $\frac{3}{8}$  of the pizza. What fraction of the pizza have they eaten together?

A rabbit ran  $\frac{1}{4}$  of a mile to his house. He ran  $\frac{3}{4}$  of a mile to his house. How much further has he to go to reach his house?

Rose drank  $\frac{1}{8}$  of the lemonade. What fraction of the lemonade has Rose got left?

Leanne ate  $\frac{1}{10}$  of the bread for her meal. Rose ate  $\frac{2}{10}$  of the bread for her meal. What fraction of all the bread did they eat together?

## ★★★ Subtract Fractions

Children use practical equipment and pictorial representations to subtract fractions with the same denominator within one whole. They understand that we only subtract the numerators and the denominators stay the same.

On this sheet, they will solve multi-step word problems involving subtraction and addition.

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**Master Problem** **Master Problem**

Jack, Malachi and Tim ate pizza. Jack ate  $\frac{2}{8}$  of the pizza. Malachi ate  $\frac{3}{8}$  of the pizza. Tim ate  $\frac{3}{8}$  of the pizza. What fraction of the pizza have they eaten together?

A rabbit ran  $\frac{1}{4}$  of a mile to his house. He ran  $\frac{3}{4}$  of a mile to his house. How much further has he to go to reach his house?

Rose drank  $\frac{1}{8}$  of the lemonade. What fraction of the lemonade has Rose got left?

Leanne ate  $\frac{1}{10}$  of the bread for her meal. Rose ate  $\frac{2}{10}$  of the bread for her meal. Tim ate  $\frac{3}{10}$  of the bread for her meal. What fraction of all the bread did they eat together?

## Reasoning & Problem Solving

### Subtract Fractions

Children continue working on subtracting fractions.

They will solve word problems with subtraction patterns.

**Subtract Fractions** **Reasoning & Problem Solving**

Rosie cuts her ribbon into six equal parts. Each part is  $\frac{1}{6}$  m shorter than previous part. The length of the first part is  $\frac{7}{30}$  m. What was the length of the ribbon?

Malachi and Esin share 16 chocolates. Malachi Esin

They both eat an even number of chocolates and 2 chocolates have left. Complete the number statement above to show what fraction of chocolates they each could have eaten.

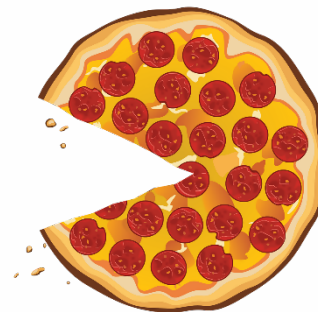
$\frac{\square}{\square} - \frac{\square}{\square} = \frac{2}{16}$



Zach bought pizza.

He ate  $\frac{3}{4}$  of the pizza.

What fraction of the pizza is left?



A runner has to run  $\frac{7}{8}$  of a mile.

He runs  $\frac{5}{8}$  of distance.

How much has he left to run?

Rosie drinks  $\frac{7}{10}$  of the lemonade.

What fraction of the lemonade has Rosie got left?



Leanna uses  $\frac{7}{11}$  of all beads for her necklace.

Which fraction of all beads has she left?





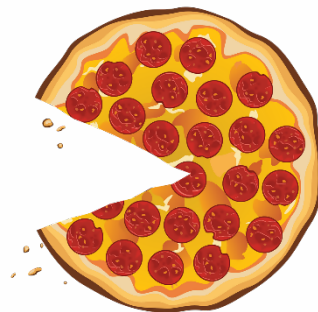
Zach bought pizza.

He ate  $\frac{3}{4}$  of the pizza.

What fraction of the pizza is left?

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

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



A runner has to run  $\frac{7}{8}$  of a mile.

He runs  $\frac{5}{8}$  of distance.

How much has he left to run?

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

$$\frac{2}{8} \text{ of a mile}$$

Rosie drinks  $\frac{7}{10}$  of the lemonade.

What fraction of the lemonade has Rosie got left?

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

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



Leanna uses  $\frac{7}{11}$  of all beads for her necklace.

Which fraction of all beads has she left?



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

$$\frac{4}{11}$$

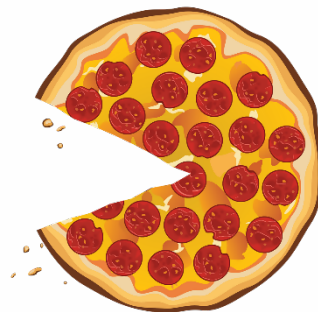


Zach and Malachi eat pizza.

Zach eats  $\frac{3}{9}$  of the pizza,

Malachi eats  $\frac{4}{9}$  of the pizza.

What fraction of the pizza have they left?



A runner jogs  $\frac{6}{11}$  of a mile to his house.

How much further has he to go to reach his house?

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

What fraction of the lemonade do they drink?



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

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

What fraction of all the beads do they have left?



Zach and Malachi eat pizza.

Zach eats  $\frac{3}{9}$  of the pizza,

Malachi eats  $\frac{4}{9}$  of the pizza

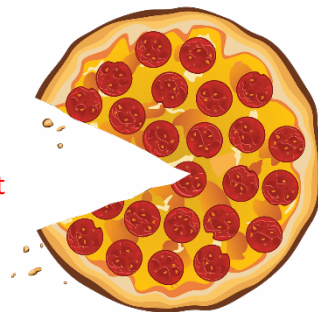
$$\frac{3}{9} + \frac{4}{9} = \frac{7}{9}$$

Zach and Malachi eat

What fraction of the pizza have they left?

$$\frac{2}{9}$$

$$\frac{9}{9} - \frac{7}{9} = \frac{2}{9}$$



A runner jogs  $\frac{6}{11}$  of a mile to his house.

How much further has he to go to reach his house?

$$\frac{11}{11} - \frac{6}{11} = \frac{5}{11}$$

$$\frac{5}{11} \text{ of a mile}$$

Rosie drinks  $\frac{5}{12}$  of the lemonade

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

What fraction of the lemonade do they drink?

$$\frac{5}{12} - \frac{1}{12} = \frac{4}{12}$$

Esin drinks

$$\frac{9}{12}$$

$$\frac{5}{12} + \frac{4}{12} = \frac{9}{12}$$



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

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

What fraction of all the beads do they have left?

$$\text{Leanna and Rosie use } \frac{5}{13} + \frac{3}{13} = \frac{8}{13}$$

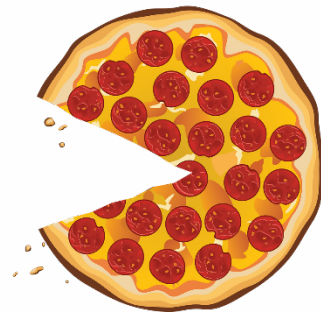
$$\frac{13}{13} - \frac{8}{13} = \frac{5}{13}$$

$$\frac{5}{13}$$



Zach, Malachi and Tia eat pizza.  
Zach eats  $\frac{5}{12}$  of the pizza, Malachi eats  $\frac{1}{12}$  of the pizza less  
than Zach eats  
and Tia eats  $\frac{2}{12}$  of the pizza less than Malachi eats.

What fraction of the pizza do they eat altogether?



A runner jogs  $\frac{6}{15}$  of a mile to his house.

He realises he has left his water bottle and has to jog back to his starting point. He finds it after jogging  $\frac{3}{15}$  of a mile back. How far does he have left to jog to his house?

Rosie drinks  $\frac{7}{14}$  of the lemonade,  
Esin drinks  $\frac{3}{14}$  of the lemonade less than Rosie drinks.

What fraction of the lemonade have they got left?



Leanna uses  $\frac{11}{25}$  of the beads for her necklace,  
Rosie uses  $\frac{2}{25}$  less of the beads for her brooch than  
Leanna uses for her necklace  
and Tia uses  $\frac{5}{25}$  less of the beads for her bracelet than  
Rosie uses for her brooch.

What fraction of beads have they left?



Zach, Malachi and Tia eat pizza.  
 Zach eats  $\frac{5}{12}$  of the pizza, Malachi eats  $\frac{1}{12}$  of the pizza less  
 than Zach eats  
 and Tia eats  $\frac{2}{12}$  of the pizza less than Malachi eats.

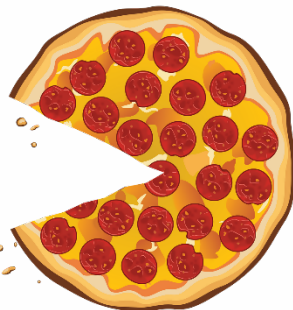
What fraction of the pizza do they eat altogether?

$$\frac{11}{12}$$

$$\frac{5}{12} - \frac{1}{12} = \frac{4}{12} \text{ Malachi eats}$$

$$\frac{4}{12} - \frac{2}{12} = \frac{2}{12} \text{ Tia eats}$$

$$\frac{5}{12} + \frac{4}{12} + \frac{2}{12} = \frac{11}{12}$$



A runner jogs  $\frac{6}{15}$  of a mile to his house.

He realises he has left his water bottle and has to jog back to his starting point. He finds it after jogging  $\frac{3}{15}$  of a mile back. How far does he have left to jog to his house?

$$\frac{6}{15} - \frac{3}{15} = \frac{3}{15}$$

$$\frac{6}{15} - \frac{3}{15} = \frac{3}{15}$$

$$\frac{12}{15} \text{ of a mile}$$

Rosie drinks  $\frac{7}{14}$  of the lemonade,

Esin drinks  $\frac{3}{14}$  of the lemonade less than Rosie drinks.

What fraction of the lemonade have they got left?  $\frac{7}{14} + \frac{4}{14} = \frac{11}{14}$

Rosie and Esin drink

$$\frac{3}{14}$$

$$\frac{14}{14} - \frac{11}{14} = \frac{3}{14}$$

$$\frac{7}{14} - \frac{3}{14} = \frac{4}{14}$$

Esin drinks



Leanna uses  $\frac{11}{25}$  of the beads for her necklace,  
 Rosie uses  $\frac{2}{25}$  of all beads for her brooch less than Leanna  
 uses for her necklace  
 and Tia uses  $\frac{5}{25}$  of all beads for her bracelet less than  
 Rosie uses for her brooch.

Which fraction of beads have they left?

$$\frac{1}{25}$$

$$\frac{11}{25} - \frac{2}{25} = \frac{9}{25} \text{ Rosie uses}$$

$$\frac{9}{25} - \frac{5}{25} = \frac{4}{25} \text{ Tia uses}$$

$$\frac{11}{25} + \frac{9}{25} + \frac{4}{25} = \frac{24}{25} \text{ Use together}$$

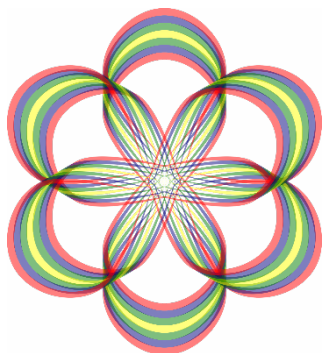
$$\frac{25}{25} - \frac{24}{25} = \frac{1}{25} \text{ left}$$

Rosie cuts her ribbon into six equal parts.

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

The length of the first part is  $\frac{7}{30}$  m.

What was the length of the ribbon?



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Malachi and Esin share 16 chocolates.

Malachi



Esin



$$\begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array} - \begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array} = \frac{2}{16}$$

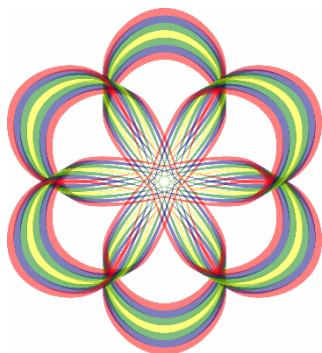
They both eat an even number of chocolates and 2 chocolates are left. Complete the number statement above to show what fraction of chocolates they each could have eaten.

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Rosie cuts her ribbon into six equal parts.

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

The length of the first part is  $\frac{7}{30}$  m.

What was the length of the ribbon?

$$1^{\text{st}} \text{ part: } \frac{7}{30} \text{ m,}$$

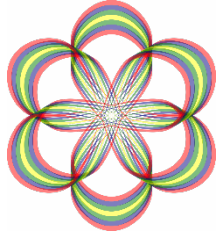
$$2^{\text{nd}} \text{ part: } \frac{7}{30} - \frac{1}{30} = \frac{6}{30} \text{ m,}$$

$$3^{\text{rd}} \text{ part: } \frac{6}{30} - \frac{1}{30} = \frac{5}{30} \text{ m,}$$

$$4^{\text{th}} \text{ part: } \frac{5}{30} - \frac{1}{30} = \frac{4}{30} \text{ m,}$$

$$5^{\text{th}} \text{ part: } \frac{4}{30} - \frac{1}{30} = \frac{3}{30} \text{ m,}$$

$$6^{\text{th}} \text{ part: } \frac{3}{30} - \frac{1}{30} = \frac{2}{30} \text{ m.}$$



Total length:  
 $\frac{27}{30}$  m.

Malachi and Esin share 16 chocolates.

Malachi



Esin



|    |   |    |   |                |
|----|---|----|---|----------------|
| 8  | - | 6  | = | $\frac{2}{16}$ |
| 16 |   | 16 |   |                |

They both eat an even number of chocolates and 2 chocolates are left. Complete the number statement above to show what fraction of chocolates they each could have eaten.

$$16 - 2 = 14 \text{ chocolates eaten.}$$

$$8 + 6 = 14 \text{ and } 8 - 6 = 2.$$

Rosie cuts her ribbon into six equal parts.

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

The length of the first part is  $\frac{7}{30}$  m.

What was the length of the ribbon?

$$1^{\text{st}} \text{ part: } \frac{7}{30} \text{ m,}$$

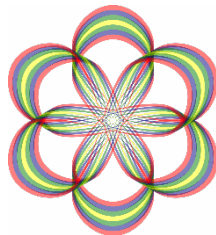
$$2^{\text{nd}} \text{ part: } \frac{7}{30} - \frac{1}{30} = \frac{6}{30} \text{ m,}$$

$$3^{\text{rd}} \text{ part: } \frac{6}{30} - \frac{1}{30} = \frac{5}{30} \text{ m,}$$

$$4^{\text{th}} \text{ part: } \frac{5}{30} - \frac{1}{30} = \frac{4}{30} \text{ m,}$$

$$5^{\text{th}} \text{ part: } \frac{4}{30} - \frac{1}{30} = \frac{3}{30} \text{ m,}$$

$$6^{\text{th}} \text{ part: } \frac{3}{30} - \frac{1}{30} = \frac{2}{30} \text{ m.}$$



Total length:  
 $\frac{27}{30}$  m.

Malachi and Esin share 16 chocolates.

Malachi



Esin



|    |   |    |   |                |
|----|---|----|---|----------------|
| 8  | - | 6  | = | $\frac{2}{16}$ |
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