Solving Word Problems

In Focus

Elliott: I ate
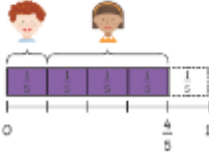
Amira: I ate

Elliott
Amira

What questions can you ask?

Let's Learn

1 How much pizza did Elliott and Amira eat altogether?

1 fifth $\frac{1}{5}$ 3 fifths $\frac{3}{5}$
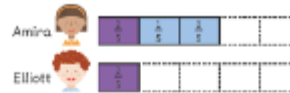
1 fifth + 3 fifths = 4 fifths

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

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

They ate $\frac{4}{5}$ of a pizza altogether.

2 Who ate more?
How much more?

Amira

Elliott

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

Amira ate more than Elliott.

Amira ate $\frac{2}{5}$ more of the pizza than Elliott ate.

Guided Practice

Solve.

gave me

gave me

How much cake did [ ] and [ ] give me?

[ ] and [ ] gave me [ ] of a cake.

Solving Word Problems

In Focus

Emma: I took 6 sweets.

Elliott: I took half as many sweets as Emma.

Lulu: I took twice as many sweets as Emma.

How many sweets did they take altogether?

Let's Learn

1 How many sweets did Elliott take?

Emma 6

Elliott

$2 \times 6 = 12$
Elliott took 12 sweets.

2 How many sweets did Lulu take?

Emma 6

Lulu

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

$6 \div 2 = 3$
Lulu took 3 sweets.

3

	number of sweets
Emma	6
Elliott	12
Lulu	3

$6 + 12 = 18$

$18 + 3 = 21$

$6 + 12 + 3 = 21$
They took 21 sweets altogether.

Guided Practice

Solve.

1 buys 10 cupcakes. buys $\frac{1}{2}$ as many cupcakes as buys.

How many cupcakes does buy?

2 buys 10 cookies. buys $\frac{1}{2}$ as many cookies as buys.

(a) How many cookies does buy?

(b) How many cookies do and buy altogether?

3 Ravi has $\frac{1}{2}$ as many coins as Hannah has.
Hannah has 8 coins.

(a) How many coins does Ravi have?

(b) How much money does Ravi have?

Solving Word Problems

In Focus

April

M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Elliott spent $\frac{1}{3}$ of the month drawing.

After that, he spent the rest of the month painting his drawing.

He took 30 days to complete the drawing and painting.

How many days is $\frac{1}{3}$ of 30 days?

Let's Learn

1 How many days is $\frac{1}{3}$ of 30 days?

	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

I draw a diagram.

$\frac{1}{3}$ of 30 days = 10 days

2 What is $\frac{1}{2}$ of 30 days?
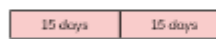
15 days	15 days

$\frac{1}{2}$ of $30 = 30 \div 2$

$\frac{1}{2}$ of 30 days = 15 days

3 What is $\frac{1}{5}$ of 30 days?

30
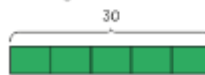
$\frac{1}{5}$ of 30 days = 30 days $\div$ 5

= [ ] days

Guided Practice

Solve.

1 Sam used $\frac{1}{3}$ of the piece of ribbon.
How long is the piece of ribbon that Sam used?

30 cm

2 (a) How heavy is half a bag of nuts?
(b) How heavy is a quarter of a bag of nuts?

3 Ruby drank $\frac{1}{2}$ of the milk in the bottle.
(a) How much milk did she drink?
(b) How much milk was left?

4 Elliott has 10 days to finish a project.
He needs to spend $\frac{1}{5}$ of the time planning it.
How many days does Elliott spend on planning?