Solving Word Problems

Lesson 30

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?

What different ways could you solve this problem?

Billy the Bunny said there are three methods he can use (shown below). How many methods can you use?

Remember to use a bar to help you visualise the problem.

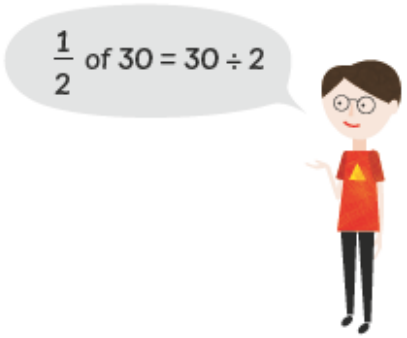
Let's Learn

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			

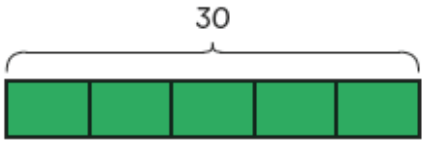
$\frac{1}{3}$ of 30 days = 10 days

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



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

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



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

= ☐ days

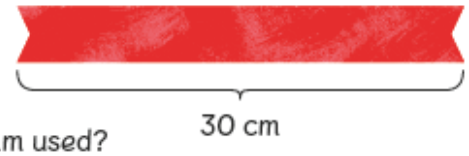
Drawing the problem as a bar will help you solve it.

Guided Practice

Solve.

1 Sam used $\frac{1}{3}$ of the piece of ribbon.

How long is the piece of ribbon that Sam used?



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.

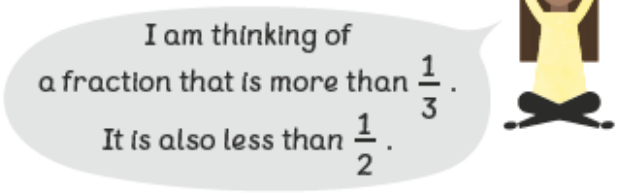
How many days does Elliott spend on planning?

Complete Worksheet **30** – Page **128 - 129**

Mind Workout

Name a fraction Lulu could be thinking of.
Explain how you get your answer.

Draw a number line to help you.



Name: _____ Class: _____ Date: _____

Worksheet 30

Solving Word Problems

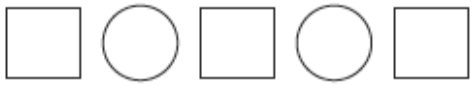
Solve.

1 A rope is 25 metres long. Sam used $\frac{1}{5}$ of it to tie a parcel.

(a) How long is the piece of rope that Sam used?

Sam used ☐ metres of rope.

(b) How much of the rope was left?



☐ metres of rope was left.

ANSWERS

Guided Practice

Solve.

1 Sam used $\frac{1}{3}$ of the piece of ribbon.

How long is the piece of ribbon that Sam used? 10 cm

2 

(a) How heavy is half a bag of nuts? 50 g

(b) How heavy is a quarter of a bag of nuts? 25 g

3 

Ruby drank $\frac{1}{2}$ of the milk in the bottle.

(a) How much milk did she drink? 250 ml

(b) How much milk was left? 250 ml

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? 2 days

Complete Worksheet **30** – Page **128 - 129**

Mind Workout

Name a fraction Lulu could be thinking of.
Explain how you get your answer.

Draw a number line to help you.

$\frac{5}{12}$ is more than $\frac{1}{3}$ but less than $\frac{1}{2}$

Name: _____ Class: _____ Date: _____

Worksheet 30

Solving Word Problems

Solve.

1 A rope is 25 metres long. Sam used $\frac{1}{5}$ of it to tie a parcel.

(a) How long is the piece of rope that Sam used?

1/5 of 25 = 25 ÷ 5

= 5

Sam used 5 metres of rope.

(b) How much of the rope was left?

25 - 5 = 20

20 metres of rope was left.