

Welcome to Year 1 Maths

The lesson will begin at 10:35 am



Turn your camera and microphone off please

Year 1 Unit 7: Exploring calculation strategies within 20

Lesson 1: Deriving facts

Mathematics
Mastery





Let's do now...

You will need a piece of
paper and a pencil



5 minutes...

Which strategy would you use?

'Make ten'?

$$6 + 2$$

$$13 + 6$$

Count on?

$$12 + 7$$

$$8 + 3$$

Number bonds?

$$7 + 5$$

$$18 + 1$$



Do Now



Key learning: To use number bonds to derive subtraction facts and teens facts



part



whole



related

number bond

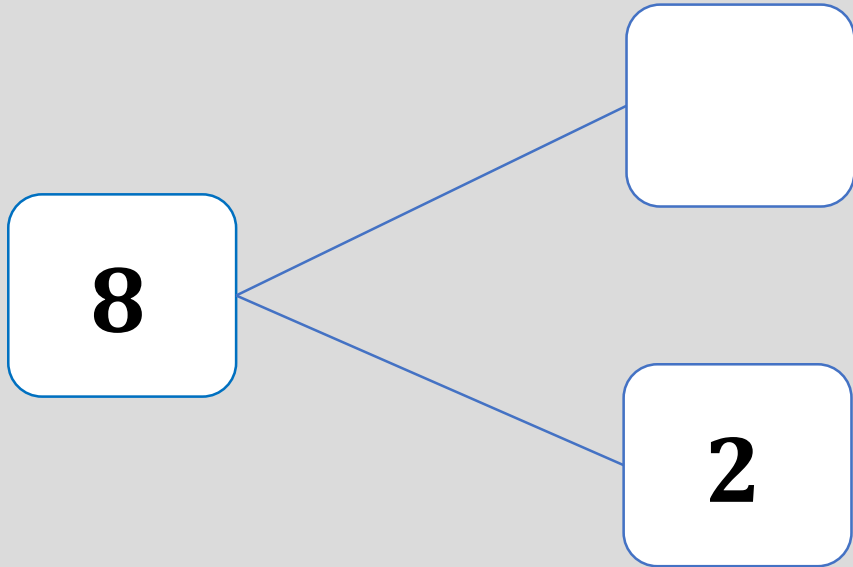
known fact



Star Words



Related facts



$$\square + \square = \square$$

$$\square + \square = \square$$

If I know...

then I know...

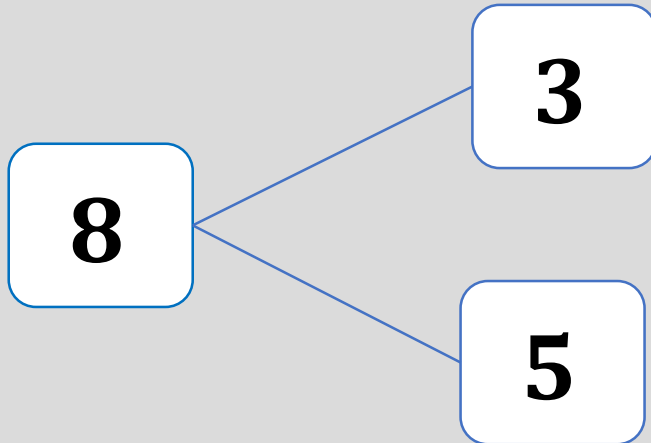
$$\square + \square = \square$$

$$\square + \square = \square$$

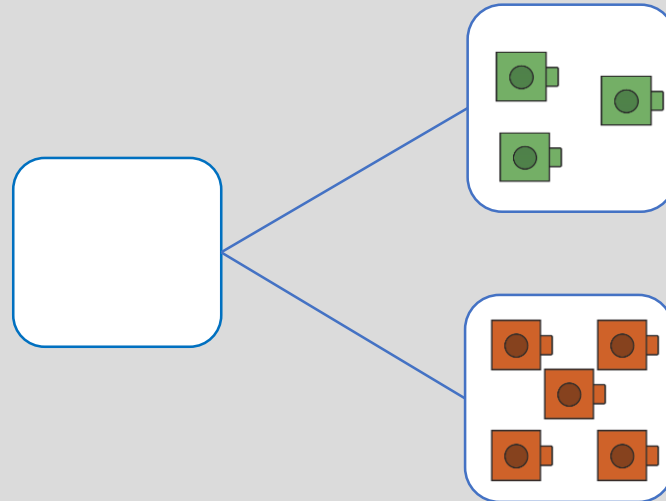


Part-whole related facts

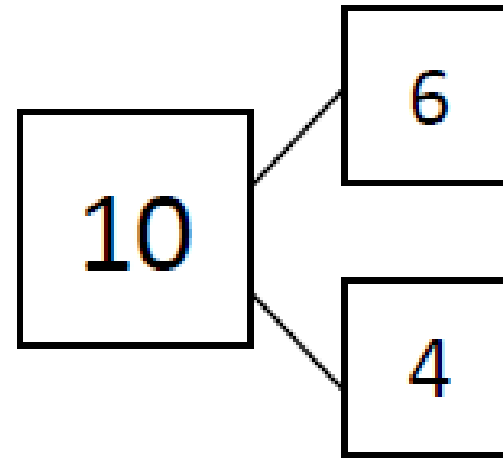
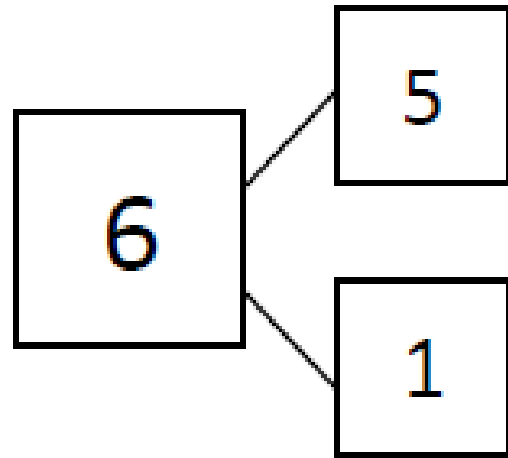
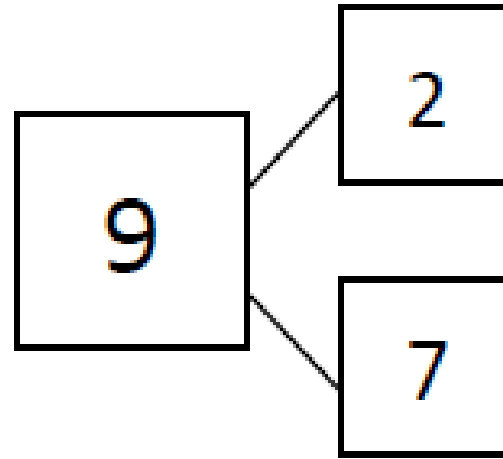
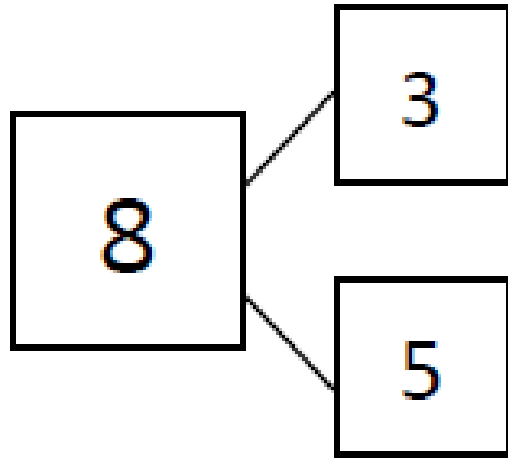
Three is a part. Five is a part. Three plus five is equal to eight. The whole is eight. If I know three plus five is equal to eight, then I know five plus three is equal to eight.



Eight is the whole. I subtract the part of three. Five is the other part. If I know eight subtract three is equal to five, then I know eight subtract five is equal to three.

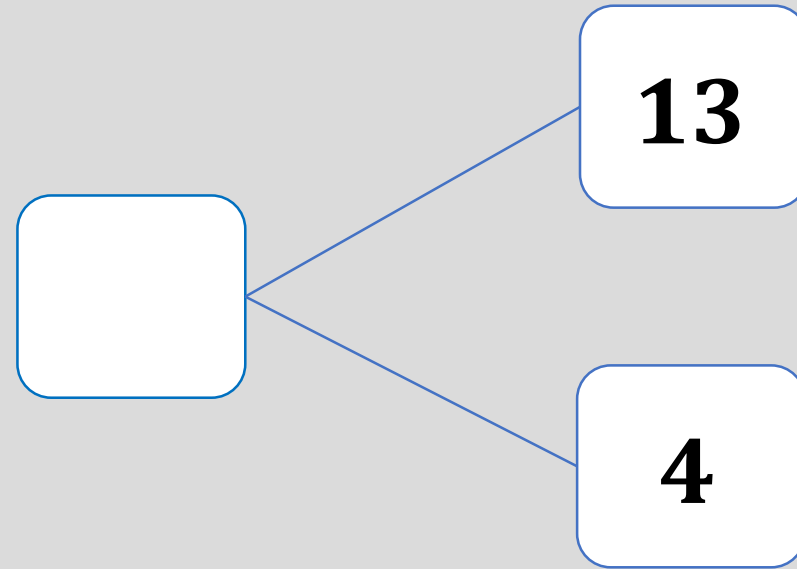
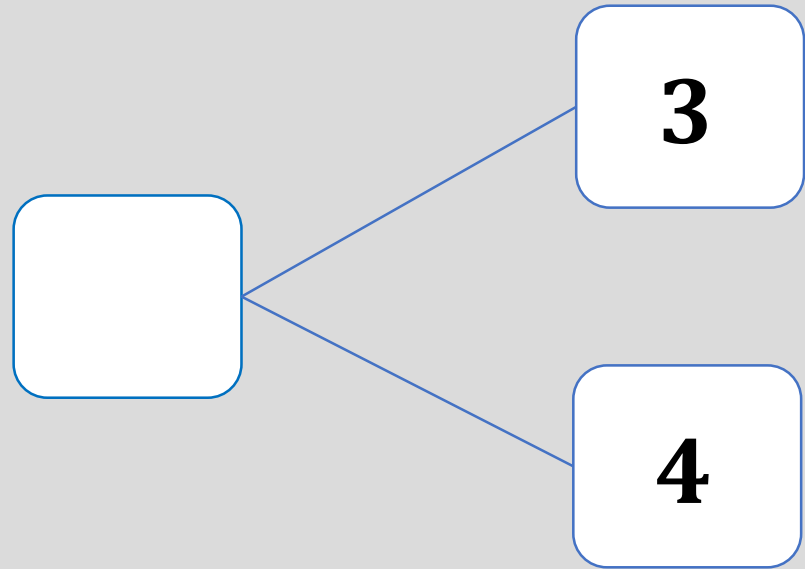


Part-whole related facts

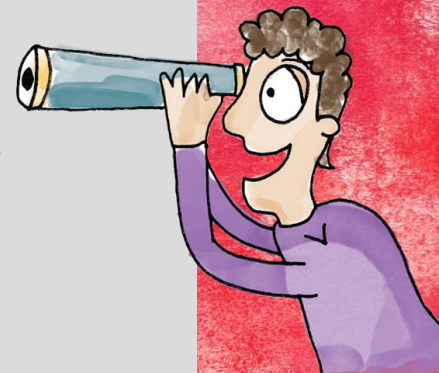


Talk Task

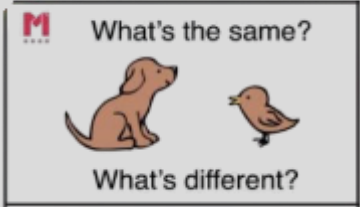
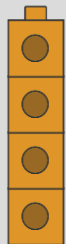
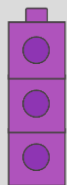
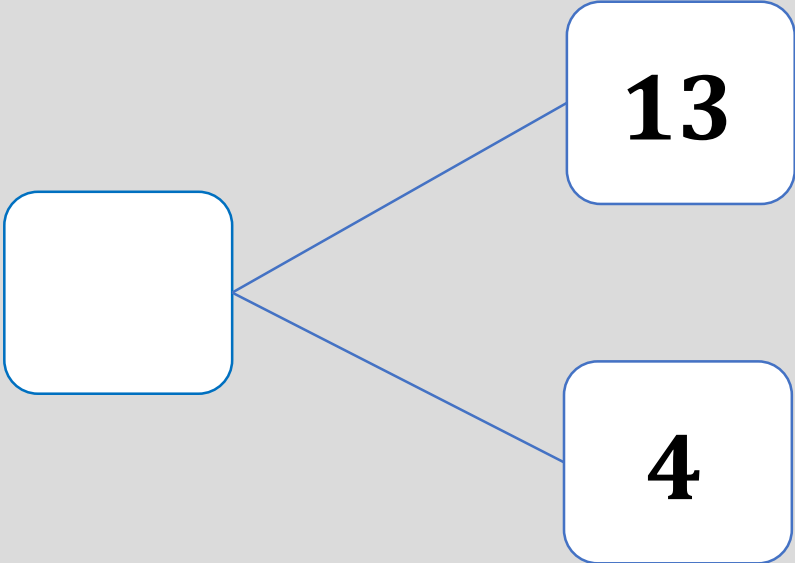
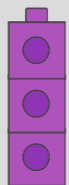
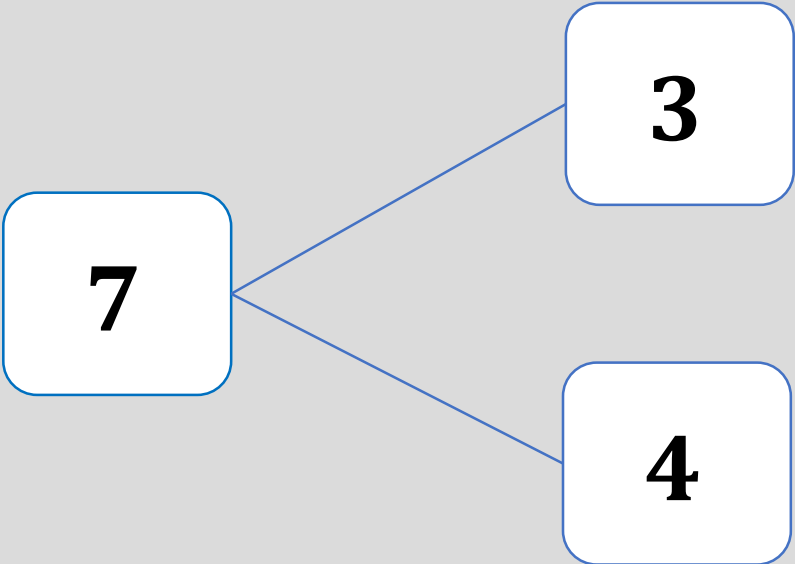
Deriving teens facts



How can we use the number bond $3 + 4 = 7$ to find the whole when the parts are 13 and 4?

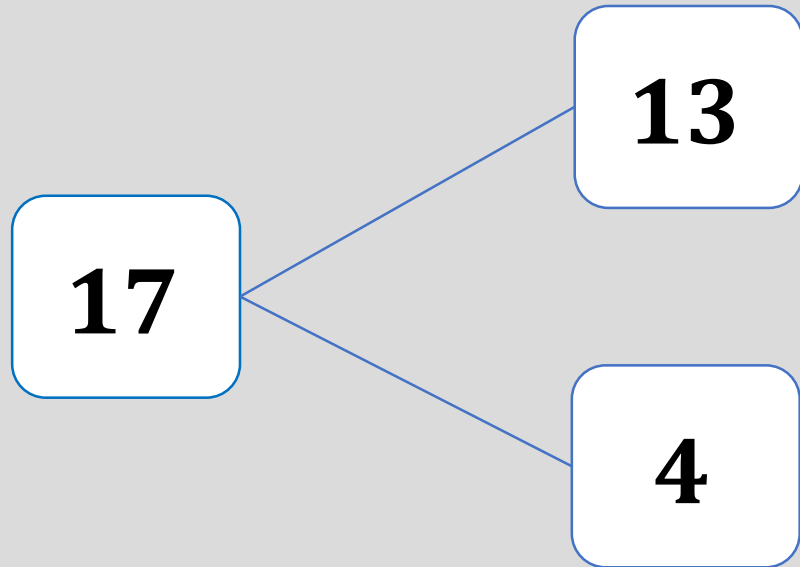


Deriving teens facts



Deriving teens facts

If I know $13 + 4 = 17$, what else do I know?



$$13 + 4 = 17$$

$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square + \square = \square$$





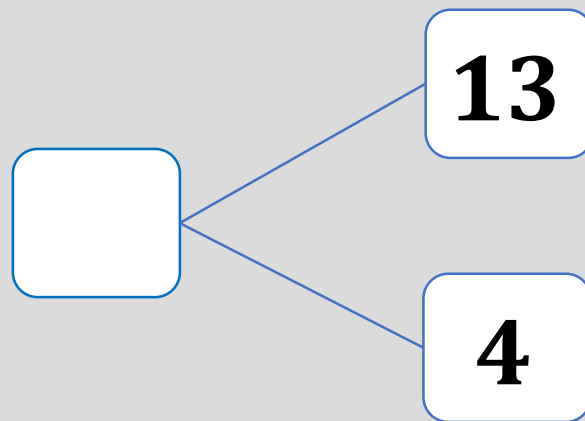
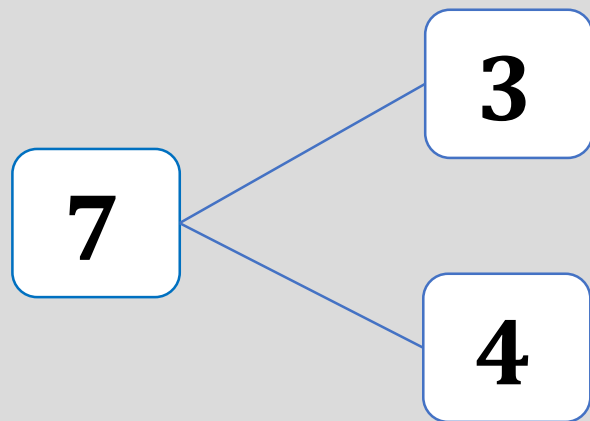
Independent task

Using the whole part, part model to help sort out the objects you have

Remember add makes the total bigger and minus makes the total smaller!



Key learning: To use number bonds to derive subtraction facts and teens facts



Use cubes on a part-whole model to model each calculation and complete the missing information!

$$3 + 4 = \square$$

$$4 + \square = 7$$

$$7 - 3 = \square$$

$$7 - \square = 3$$

$$\square = 13 + 4$$

$$17 = 4 + \square$$

$$13 = 17 - \square$$

$$4 = 17 - \square$$

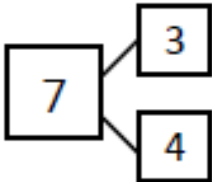
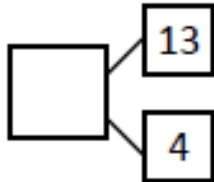


Independent Task

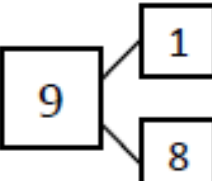
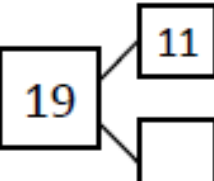


Key learning: To use number bonds to derive subtraction facts and teens facts

1)

	
$3 + 4 = \square$	$\square = 13 + 4$
$4 + \square = 7$	$17 = 4 + \square$
$7 - 3 = \square$	$13 = 17 - \square$
$7 - \square = 3$	$4 = 17 - \square$

2)

	
$\square = 1 + 8$	$19 = \square + \square$
$9 = \square + 1$	$19 = \square + \square$
$\square = 9 - 8$	$\square = 19 - \square$
$8 = 9 - \square$	$\square = 19 - \square$

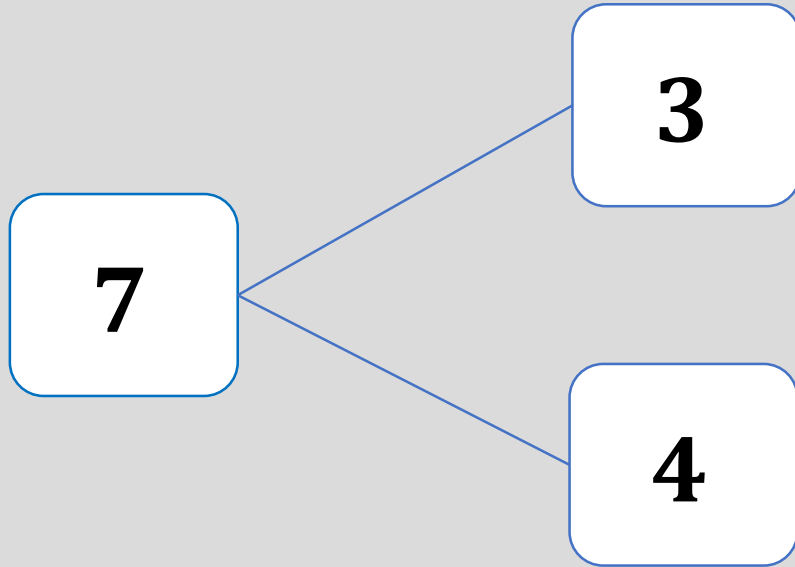
Use cubes on a part-whole model to model each calculation and complete the missing information!



Independent Task



Identifying misconceptions



I've written the related facts for this part-whole model!

$$3 + 4 = 7$$

$$7 + 4 = 3$$

$$7 - 4 = 3$$

$$3 - 4 = 7$$

Has he written his equations correctly?

How do you know?



Plenary



		9.05 – 9.30	09.30 – 10.00	10.00 – 10.20	10.20 – 10.35	10.35 – 11.45	11.45 – 12.45	12.45 – 2.00	2.05 -2.20	2.20 - 2.40	2.40 – 2.55		
Monday	Self-directed and movement activity	PE (Go noodle/Jo e Wickes)	Whole School Assembly LIVE	Spelling and Grammar LIVE	Break	Maths - LIVE	Lunch	ART and MUSIC LIVE	Handwriting - LIVE	Phonics LIVE	Story time - LIVE		
Tuesday	Self-directed and movement activity	ART (Recorded/Video on Teams)	Phonics - LIVE			Maths - LIVE		Science LIVE	Handwriting - LIVE	Phonics LIVE	Story time - LIVE		
Wednesday	Self-directed and movement activity	MyOn/Times table Rock stars	Phonics - LIVE			Maths - LIVE		Votes for Schools LIVE	PSCHE LIVE	Handwriting - LIVE	Phonics LIVE	Story time - LIVE	
Thursday	Self-directed and movement activity	PE (Go noodle/Jo e Wickes)	Phonics - LIVE			Maths - LIVE		Languages (Teams Assignment)	Religious Education LIVE	Computing LIVE	Singing Assembly 2:30 – 3:00 LIVE		
Friday	Self-directed and movement activity	MyOn/Times table Rock stars	Phonics - LIVE			Maths- LIVE		Geography/History LIVE	Handwriting - LIVE	Story time - LIVE	KS1 Celebration Assembly 2:30 2:55 LIVE		