Year 2 Fractions: Finding ¾

LO: To find ¾ of a number using a bar model

Success criteria:

❑ I can use pictorial representations and bar models to find ¾ using my knowledge of how to find ¼

❑ I can explain my reasoning when identifying ¾

Morning Task

Use the column method to show:

23 + 42 =

34 + 38 =

45- 23 =

64 – 45 =

12 x 10 =

100 ÷ 10 =

Write a number story for 10 x 5

Mrs Riley buys 2 apples every day for 1 week. How many apples does she buy altogether?

Write a number sentence to show how you worked out your answer.

Times tables practice

Let's count forwards and backwards in 5s!
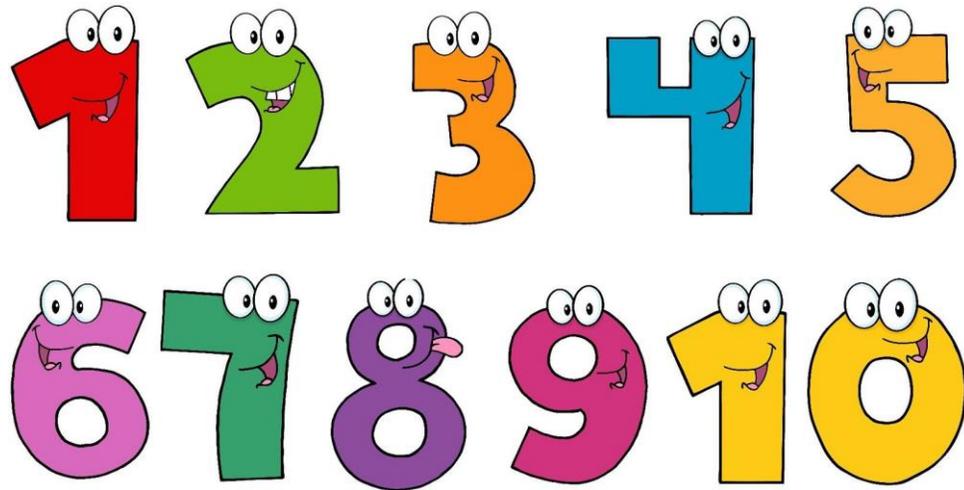
Anchor question

I have 12 pencils. I keep ¼ of the pencils and give Mrs Chadry ¾ . How could we use a bar model to work out how many pencils we have each?

Independent practice

Complete these questions in your books . You have 10 minutes to do as many as you can. Hands up if you need a challenge question. https://www.online-stopwatch.com/classroom-timers/

1. Find ¾ of 12
2. Find ¾ of 32
3. Find ¾ of 40
4. Find ¾ of 44
5. Find ¾ of 28
6. Find ¾ of 24
7. Find ¾ of 48

If you are still trying to wrap your head around ¼, try these questions:
1. Find ¼ of 12
2. Find ¼ of 40
3. Find ¼ of 24
4. Find ¼ of 28
5. Find ¼ of 16

Explore

If there are 20 cars in a car park and ¾ of them are red. How many aren't red?
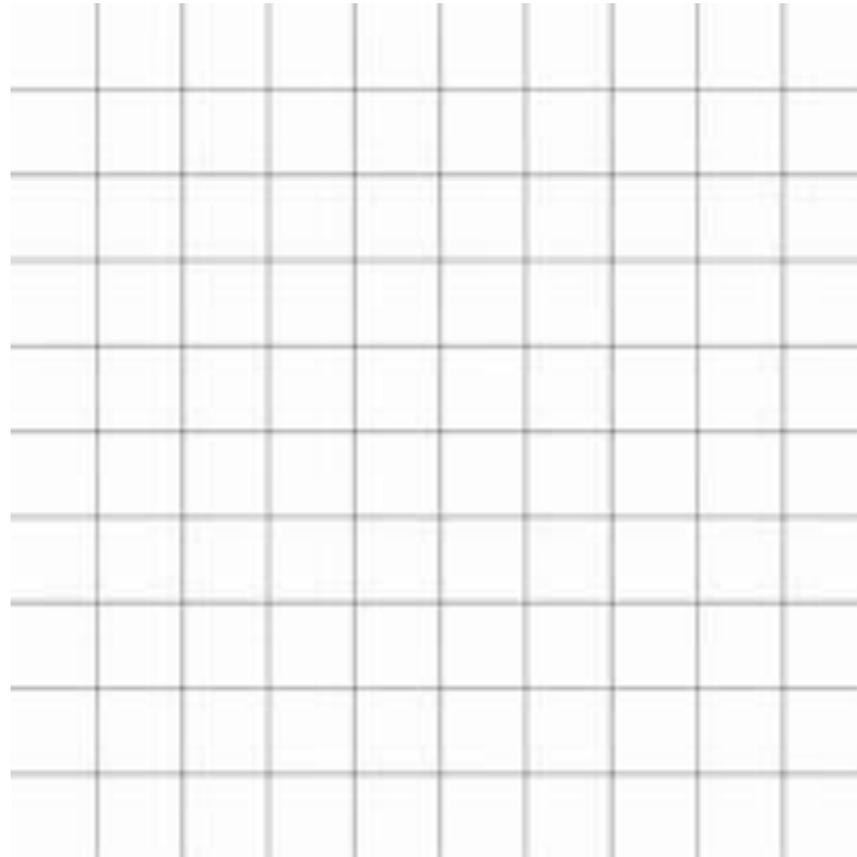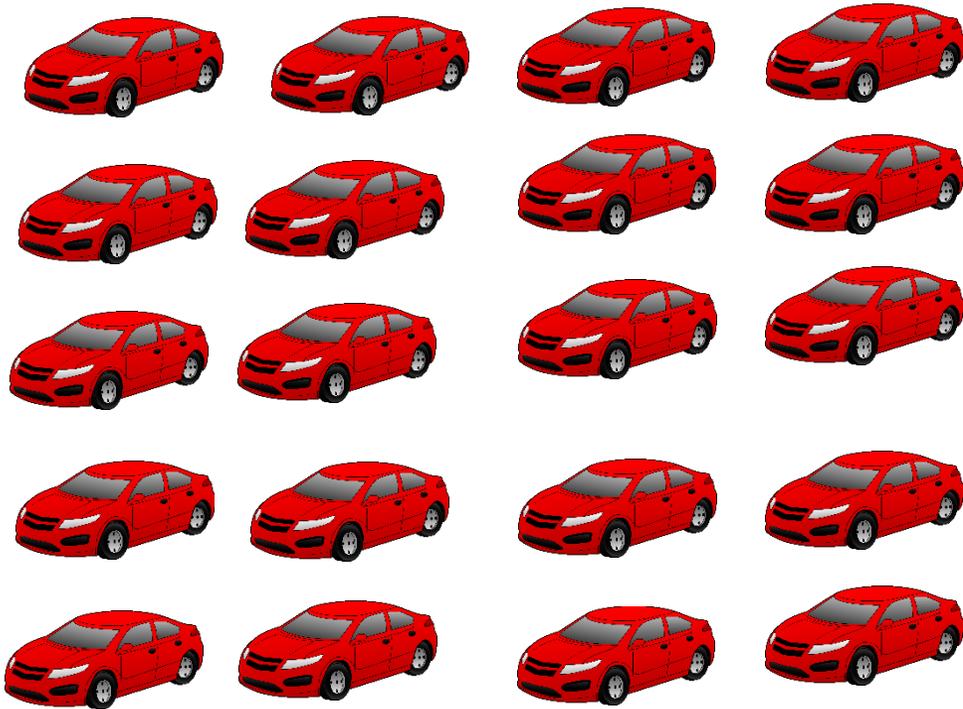
How could we find the answer to this question with and without using the bar model method?
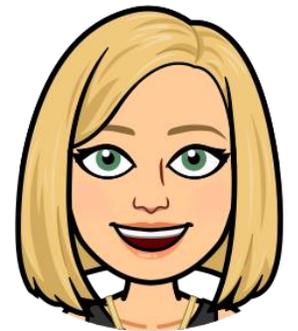
Guided practice

Whiteboards at the ready! Work out this question using a bar model...

Oscar has **28** footballs. He gives ¼ of them to Seb and keeps ¾ of them for himself.

- How many footballs does **Oscar** end up with?
- How many footballs does Oscar give to **Seb**?

Independent practice A

1. Mrs Riley has **24** marshmallows. She gives ¾ to her friend and eats ¼ for herself. How many does her friend eat? How many does Mrs Rileyeat?

2. Tom has **16** t-shirts. He takes ¼ of them to the charity shop, and keeps ¾ of them for himself. How many did he take to the charity shop? How many did Tom keep?

3. Patrick has **32** pennies. He gives ¾ of the pennies to his brother and keeps ¼ for himself. How many pennies does his brother get? How many does Patrick keep?

4. Laura has **8** hats. She gives ¼ to her friend and keeps ¾. How many does her friend get? How many do Laura keep?

5. Edi has **28** tennis balls. He loses ¼ of them on his way to the tennis court, but keeps ¾ of them. How many did Edi lose? How many did he keep?

Guided practice

Have a go at this question on your whiteboards...

Tia eats three quarters of her marshmallows.

How many marshmallows does Tia have left?
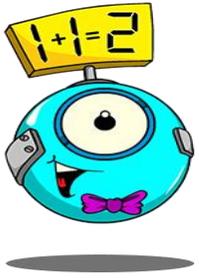
Challenge

Challenge:

1. **Activity 5:**

James says, "I have circled three quarters of the stars."
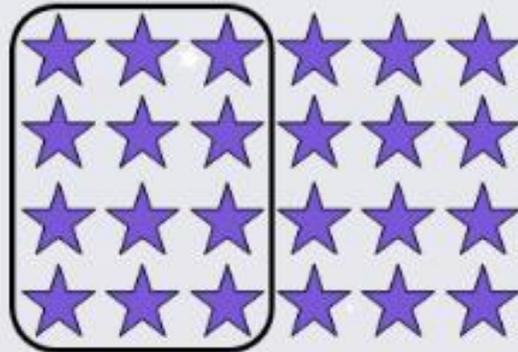
Do you agree?

Explain your answer.

2. Mrs Rileyhas **32** Jaffa cakes. She gives Year 2 ¾ of the Jaffa cakes and eats ¼ herself.

How many Jaffa cakes do **Year 2** get? How many does **Mrs Riley** get? Show your working out.

Challenge

Extension:

Ahmed eats three quarters of his apples.

He has eaten the amount of apples shown.

How many apples does he have left to eat?
Explain your answer.
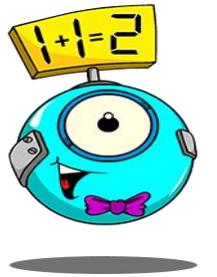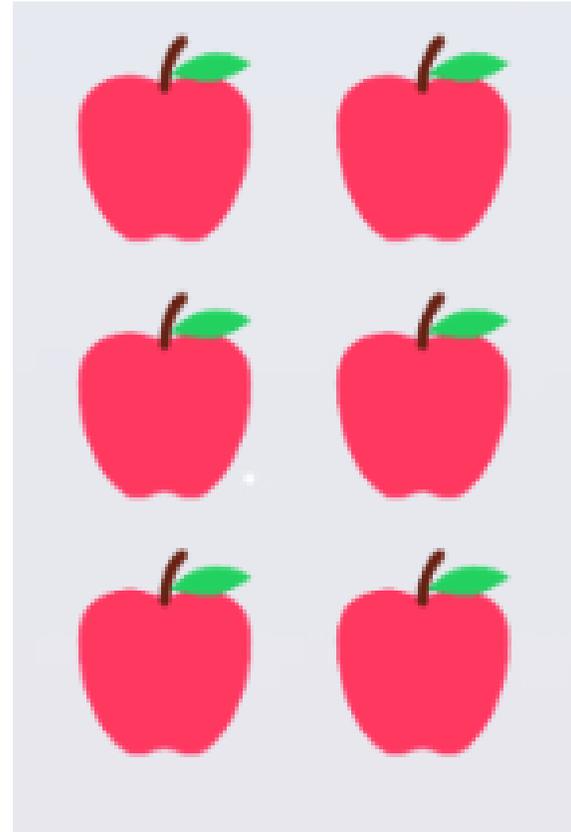
Independent practice B

1. Mrs Riley has **24** marshmallows. She eats ¼ of them. How many does she eat?

2. Tom has **16** t-shirts. He gives ¼ of them to the charity shop. How many does he give away?

3. Patrick has **32** pennies. He keeps ¼ of them for himself. How many does he keep for himself?

4. Laura has **8** hats. She gives ¼ to her friend. How many hats does her friend get?

5. Edi has **28** tennis balls. He loses ¼ of them on his way to the tennis court. How many does he lose?

Independent practice C

1. Find ¼ of 20
2. Find ¼ of 28
3. Find ¼ of 40
4. Find ¼ of 44
5. Find ¼ of 24
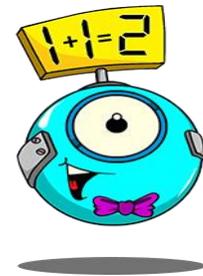
Challenge: If you have completed all of the questions, go back and work out ¾ of the numbers using the bar model method.

Exit task

Amir is using beanbags and hoops to find three quarters of 20

Can you spot his mistake?

$\frac{3}{4}$ of 20 = 14

Explain why…