

Skill - I can understand and use Unit Fractions

These are fractions where the
'Numerator' (top number) is 1.

Spring 2
Week 5 - Lesson 1

Rapid Recall

Count through your 2 x Table in different voices, eg robot, squeaky, deep, whisper, shouting. Can you do it backwards?!

Repeat this with the 10, 5 and 3 x Tables.

3. Polly has £5 to spend. Which of these items can she afford in the half price sale? Explain your answer.

Half Price Sale

£10
T-shirt

£6
shorts

£12
jacket

RPS
HW/Ext

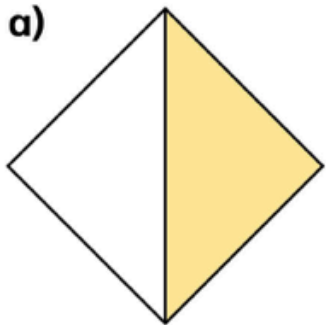
Which would you choose to buy? Why?

Varied Fluency

Unit fractions

1 Complete the sentences for each shape.

a)



There are equal parts.

There is part shaded.

is shaded.

1 b)



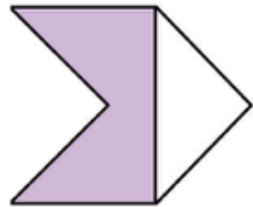
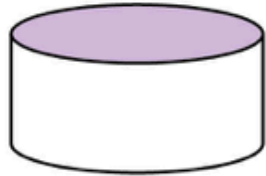
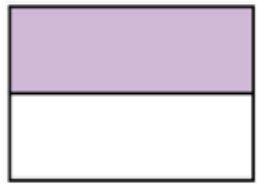
There are equal parts.

There is part shaded.

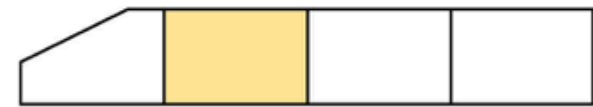
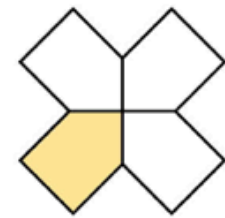
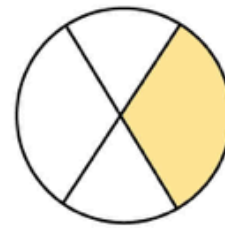
is shaded.

Varied Fluency

3 Tick the shape that has $\frac{1}{2}$ shaded.



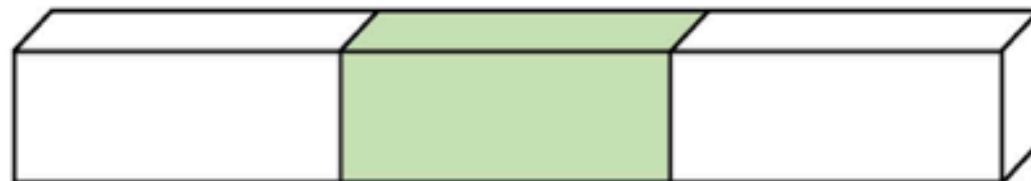
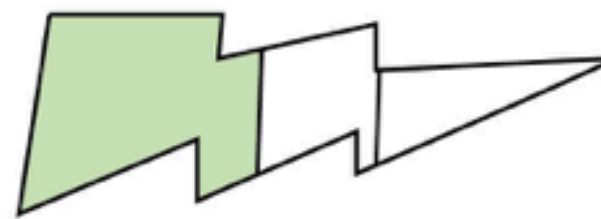
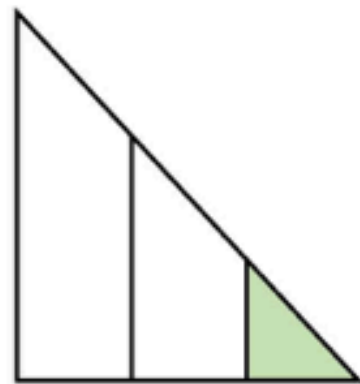
5 Tick the shapes that have $\frac{1}{4}$ shaded.



How did you know?

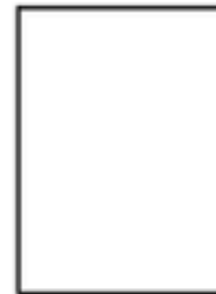
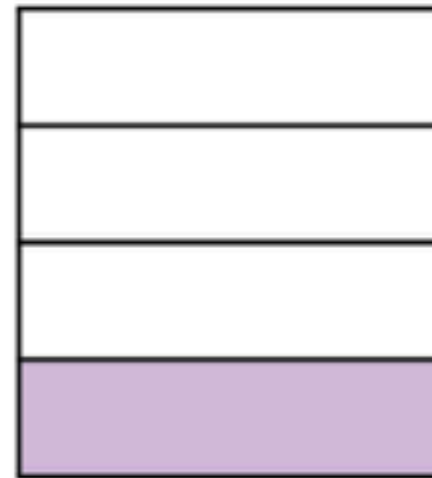
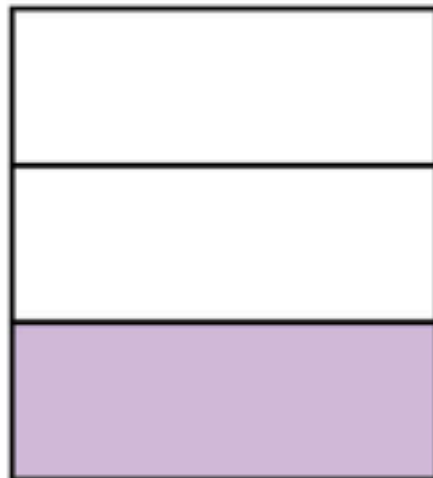
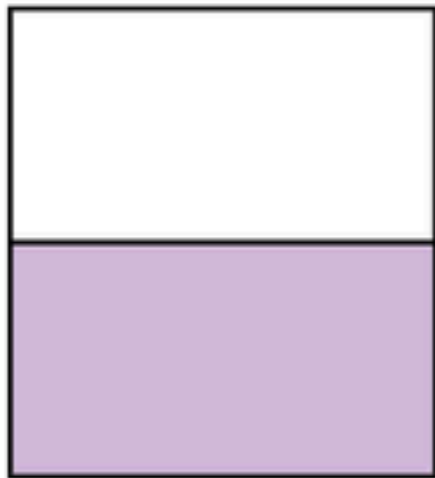
Varied Fluency

- 4 Tick the shape that has $\frac{1}{3}$ shaded.



Varied Fluency

6 What fraction of each shape is shaded?



What is the same about the fractions?

What is different about them?



Problem Solving

White
Rose
Maths

7 Here are some fractions.

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

$$\frac{2}{3}$$

$$\frac{3}{4}$$

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

$$\frac{1}{3}$$

Tick all the unit fractions.

Compare answers with a partner.

Can you think of any more unit fractions?

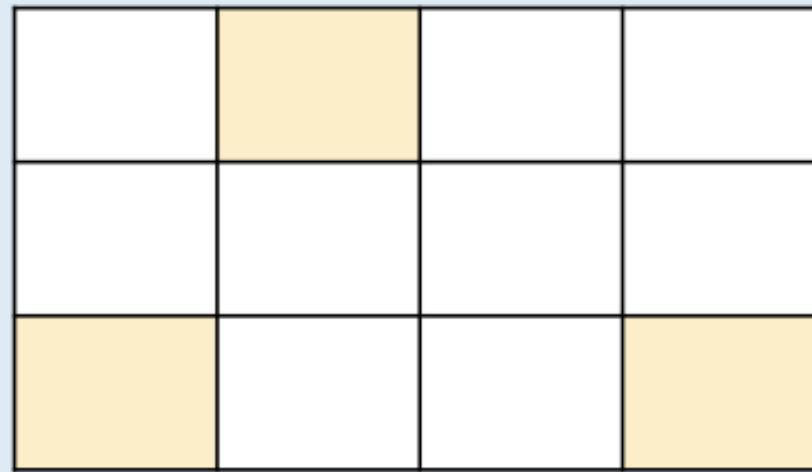


Can you draw two different pictures to represent each of the Unit Fractions?

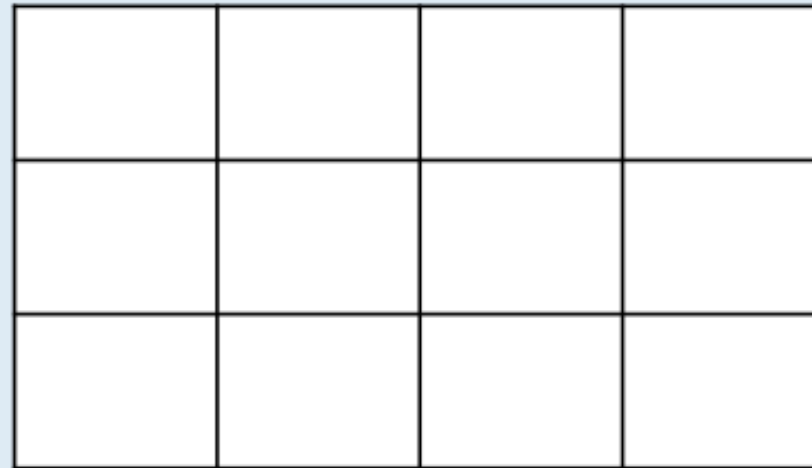
Reasoning

True or False?

This shows $\frac{1}{4}$

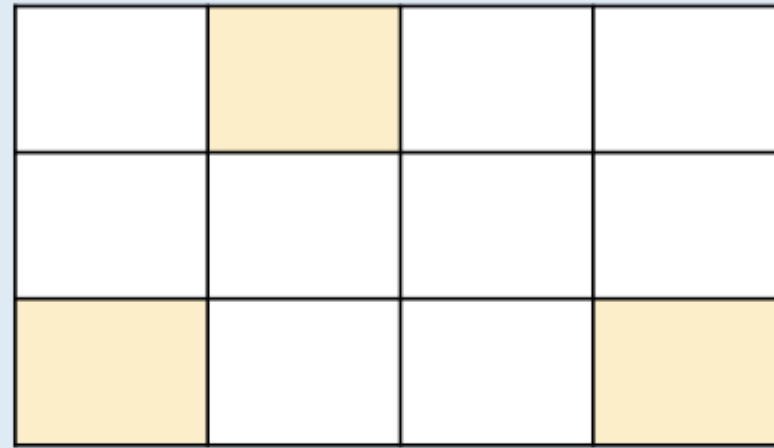


Can you shade the same shape so that it shows $\frac{1}{3}$?



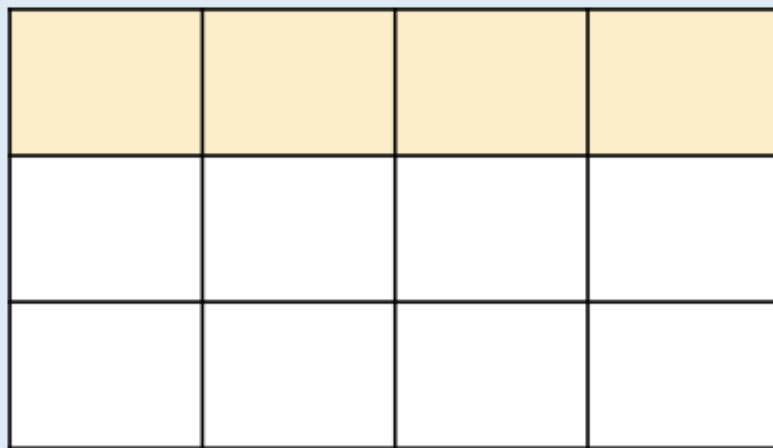
Reasoning- Answer

This shows $\frac{1}{4}$

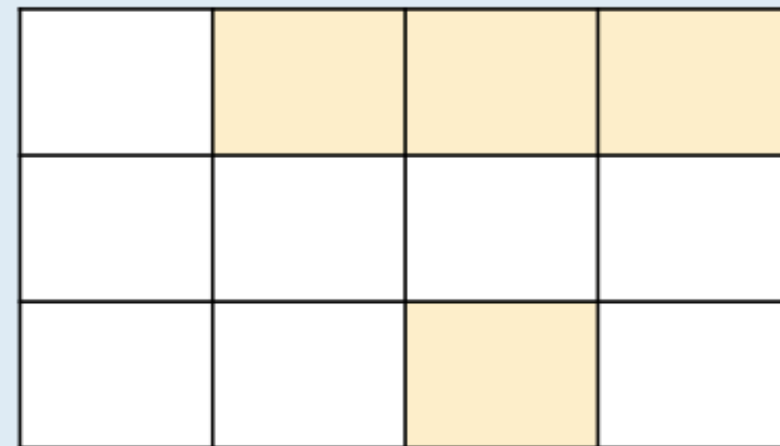


True. There are 12 squares altogether and 3 are shaded. One quarter of 12 is 3

Can you shade the same shape so that it shows $\frac{1}{3}$?



or

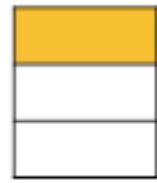


Any 4 rectangles will show one third shaded.

Independent activity

Unit Fractions

1. Tick the images that show one third.



A.

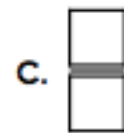
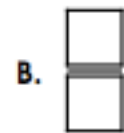
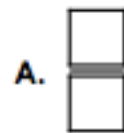
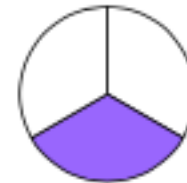
B.

C.

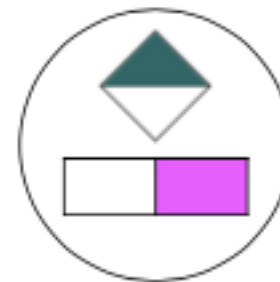
D.



2. Complete the fraction for each representation.



3. Mark has sorted some fractions, but he has forgotten the headings. Help him by adding the labels to his sorting hoops.



A.

B.



Skill - I can understand and use Non-Unit Fractions

These are fractions where the 'Numerator' (top number) is NOT 1.

Spring 2
Week 5 - Lesson 1

Rapid Recall

Stomp around the room, counting in 2s as you go. Can you stomp and count backwards aswell?! Try to count on from different starting points (eg start from 14).

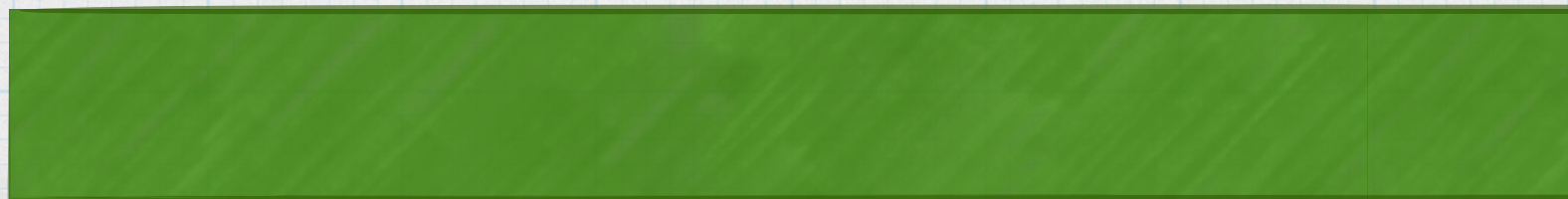
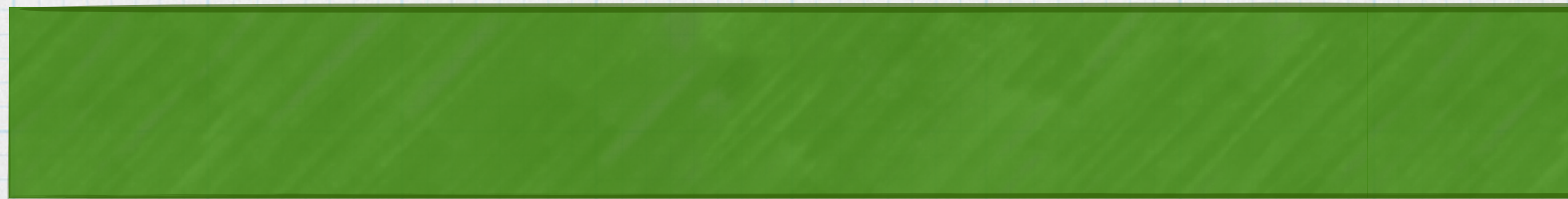
Repeat this with the 10, 5 and 3 x Tables.

Big Question

True or False?

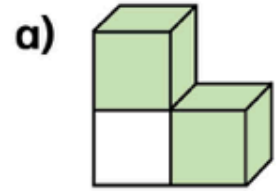
$\frac{1}{4}$ is smaller than $\frac{1}{3}$

Draw a picture to represent the question



Varied Fluency

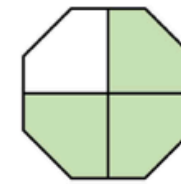
1 Complete the sentences.



There are 3 equal parts.
There are 2 parts shaded.

is shaded.

1 b)



There are equal parts.

There are parts shaded.

is shaded.

1 c)



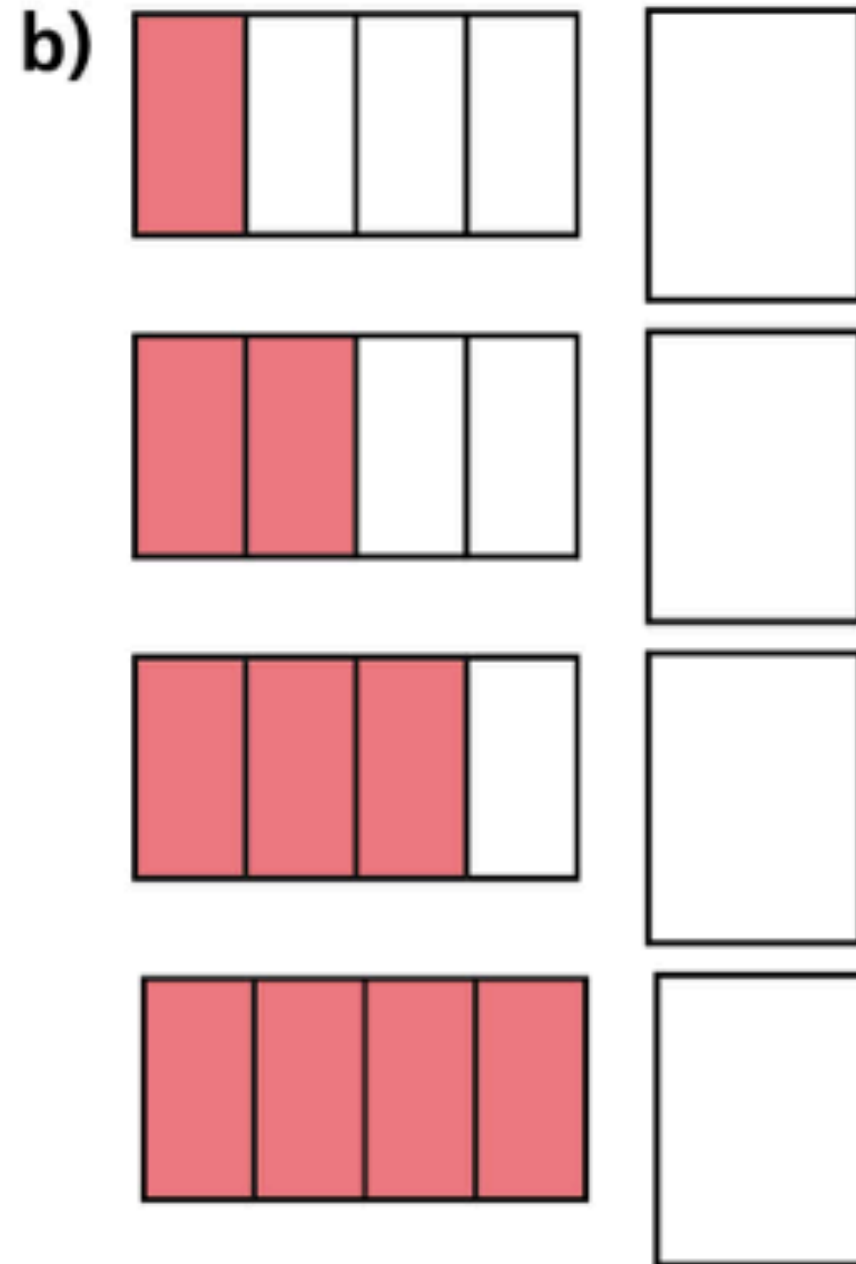
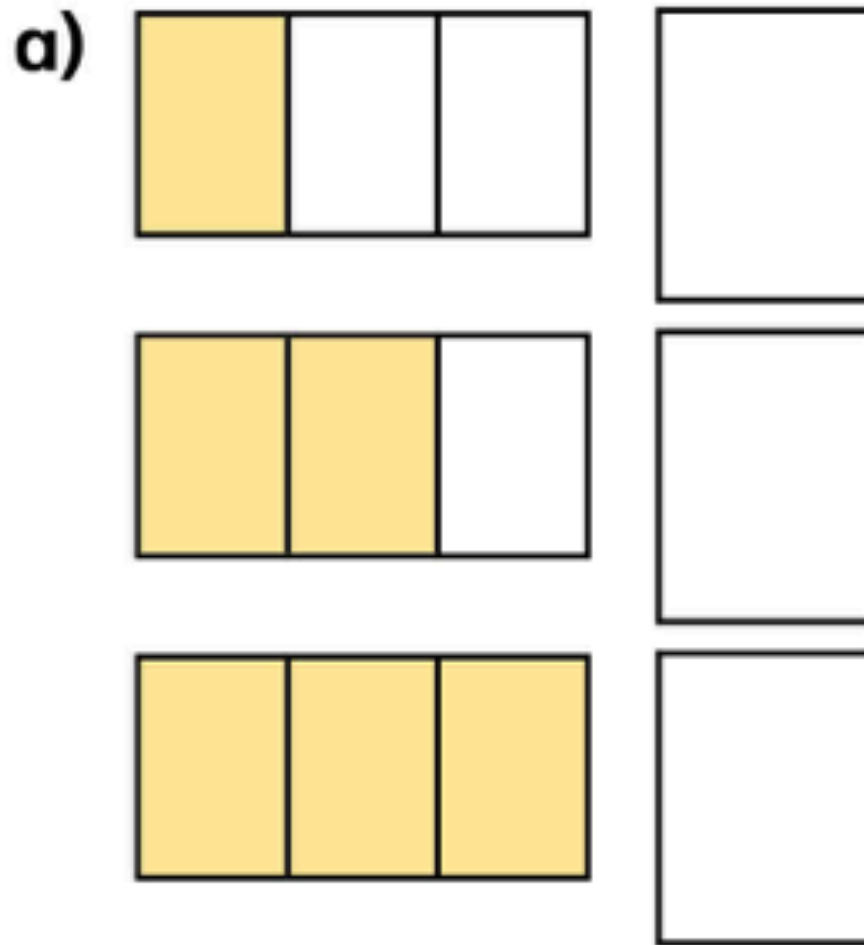
There are equal parts.

There are parts shaded.

is shaded.

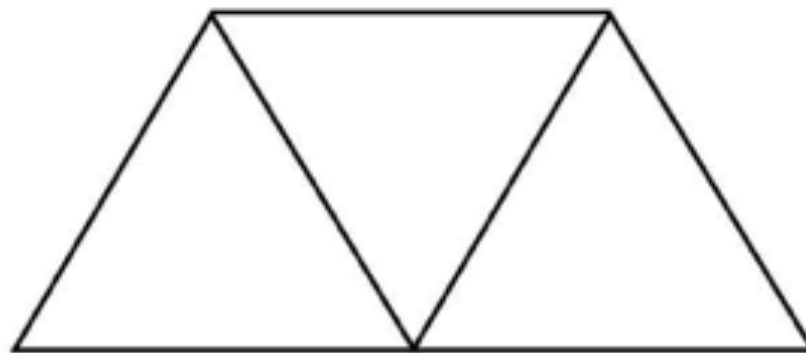
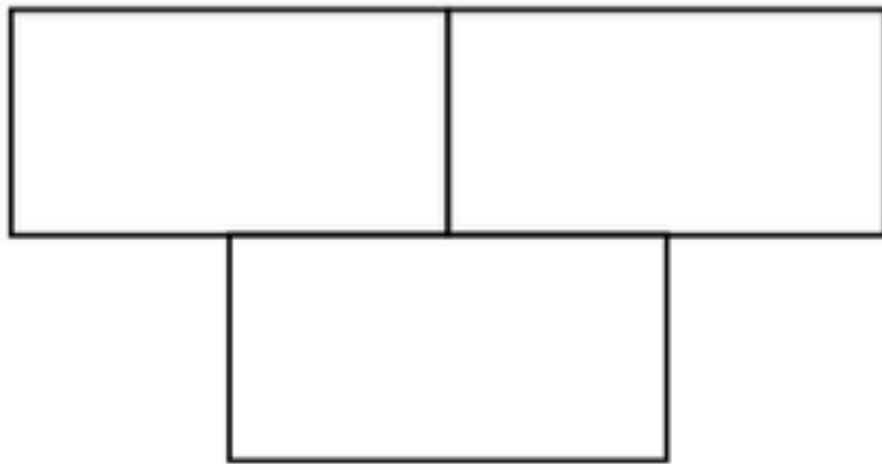
Varied Fluency

2 What fraction of each shape is shaded?



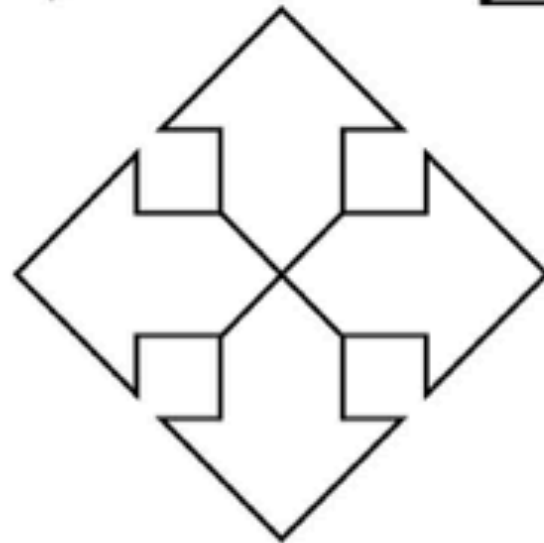
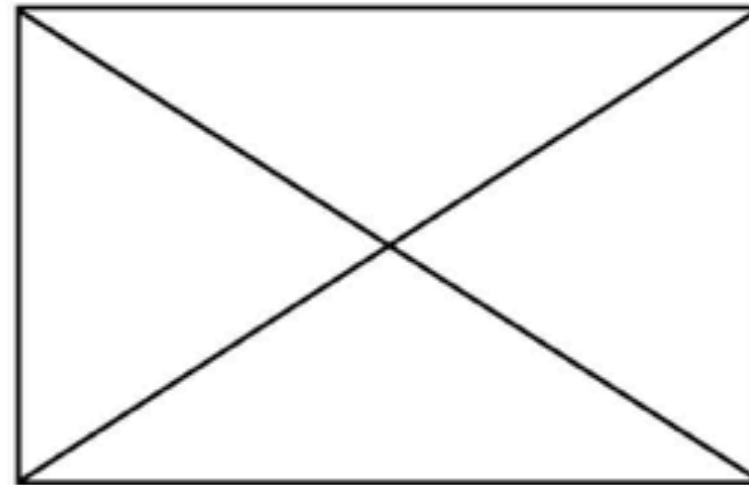
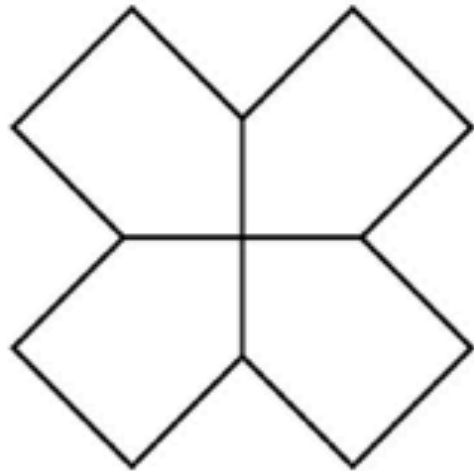
Varied Fluency

- 3 Colour $\frac{2}{3}$ of each shape.



Varied Fluency

- 4 Colour $\frac{3}{4}$ of each shape.



Varied Fluency

5 A shape has 3 equal parts.

a) What fraction is shaded if there are 2 parts shaded?



is shaded.

b) What fraction is shaded if there are 3 parts shaded?



is shaded.

Varied Fluency

6 Write the fractions in the table.

$$\frac{1}{3}$$

$$\frac{3}{4}$$

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

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

$$\frac{2}{3}$$

Unit fractions	Non-unit fractions

Problem Solving

Alex says,

I have shaded $\frac{2}{2}$
of the shape.



What mistake might Alex have made?

What was the correct answer?

Reasoning

Discuss

Non-Unit Fractions

How many quarters make a whole? How many thirds make a whole? What do you notice?

How many quarters are there in $\frac{3}{4}$?

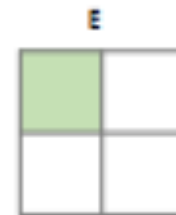
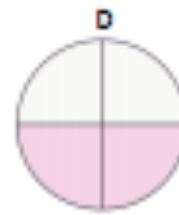
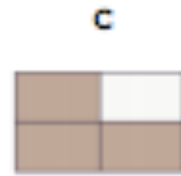
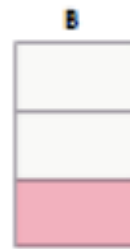
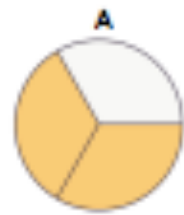
In $\frac{3}{4}$, what does the digit 3 represent? What does the digit 4 represent?

Give me an example of a unit fraction and a non-unit fraction.

Independent activity

Non-Unit Fractions

1. Match each image to a fraction to find the odd one out.



$\frac{1}{4}$

$\frac{3}{4}$

$\frac{1}{3}$

$\frac{2}{3}$

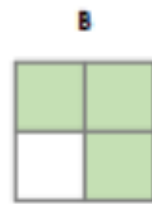
$\frac{4}{4}$

$\frac{2}{4}$

2. Complete the fractions and images so they match.



$\frac{3}{3}$



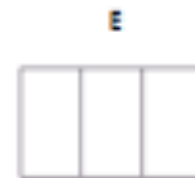
$\frac{\square}{\square}$



$\frac{2}{4}$



$\frac{\square}{\square}$

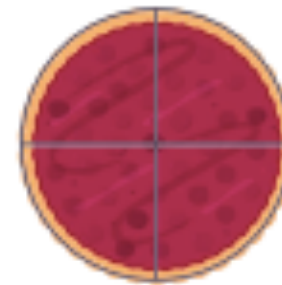


$\frac{2}{3}$

3. Elliot says,



I cut a jam tart into 4 equal slices.
I ate 3 of the slices so I ate $\frac{2}{4}$ of the
jam tart.



Is he correct? Explain your answer.



Skill - I know the
equivalence of $\frac{1}{2}$ and $\frac{2}{4}$

(they are the same)

Spring 2
Week 5 - Lesson 3

Rapid Recall

https://www.youtube.com/watchv=6RHvIUry_uc

Practice counting on in twos
with NumberRock.

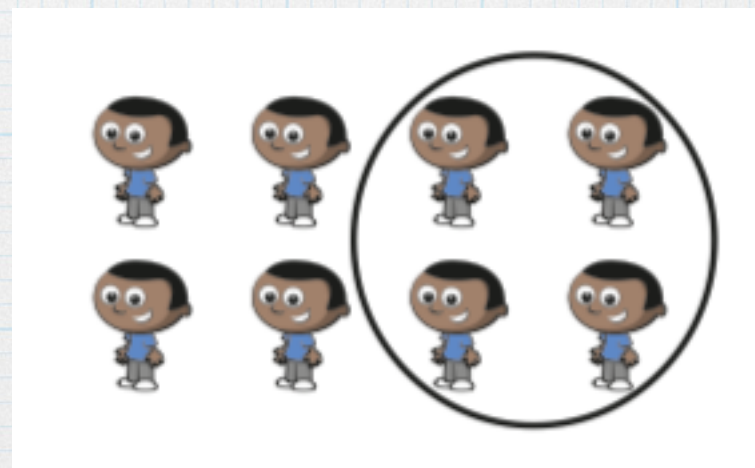
Big Question

Tom and Eva are choosing a football team.

Eva says that she would have chosen $\frac{2}{4}$ of the children available.

Tom says that she has chosen $\frac{1}{2}$ of the children.

Who is right?

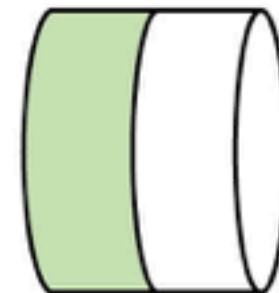
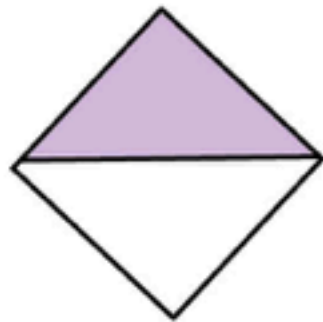


Varied Fluency

Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$

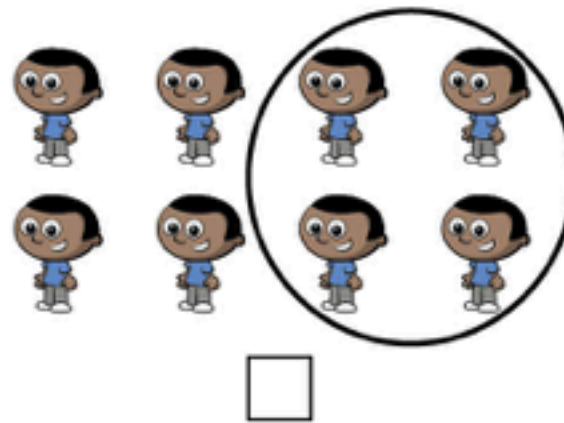
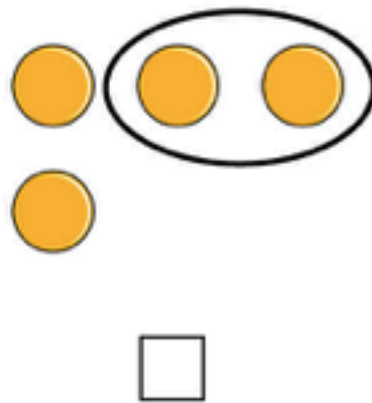
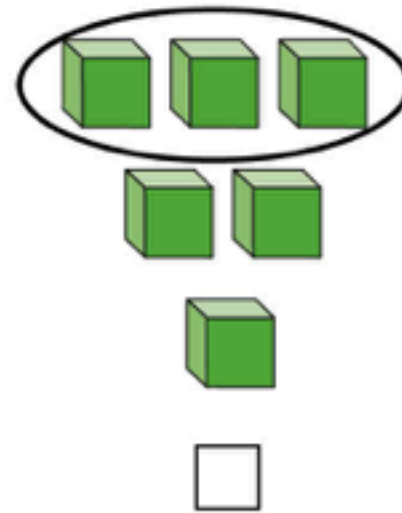
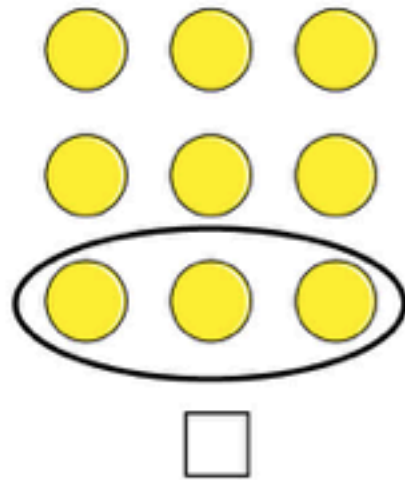


- 1 Circle the shapes that have $\frac{1}{2}$ shaded.



Varied Fluency

2 Tick the groups that have $\frac{1}{2}$ circled.



Varied Fluency

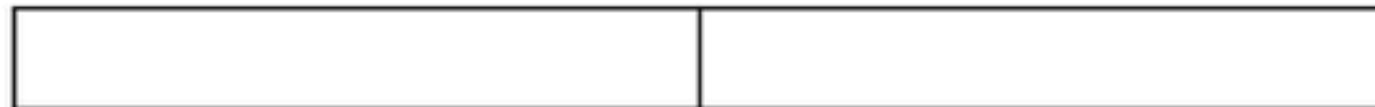


3 Here are two bar models.

a) Colour $\frac{2}{4}$ of the bar model.



b) Colour $\frac{1}{2}$ of the bar model.



What do you notice? Talk to a partner.



Varied Fluency



- 4 Use the sweets to help you answer the questions.

a) What is $\frac{1}{2}$ of 12?



b) What is $\frac{1}{4}$ of 12?



Varied Fluency

4 c) What is $\frac{2}{4}$ of 12?



Group Activity.

Use 20 blocks to find out...

- 5 Write the missing numbers.

$$\frac{3}{4} \text{ of } 20 = \square$$

$$\frac{1}{2} \text{ of } 20 = \square$$



$$\frac{2}{4} \text{ of } 20 = \square$$

$$\frac{1}{4} \text{ of } 20 = \square$$

Problem Solving

6 Solve the problems.

a) Find $\frac{2}{4}$ of £8

£

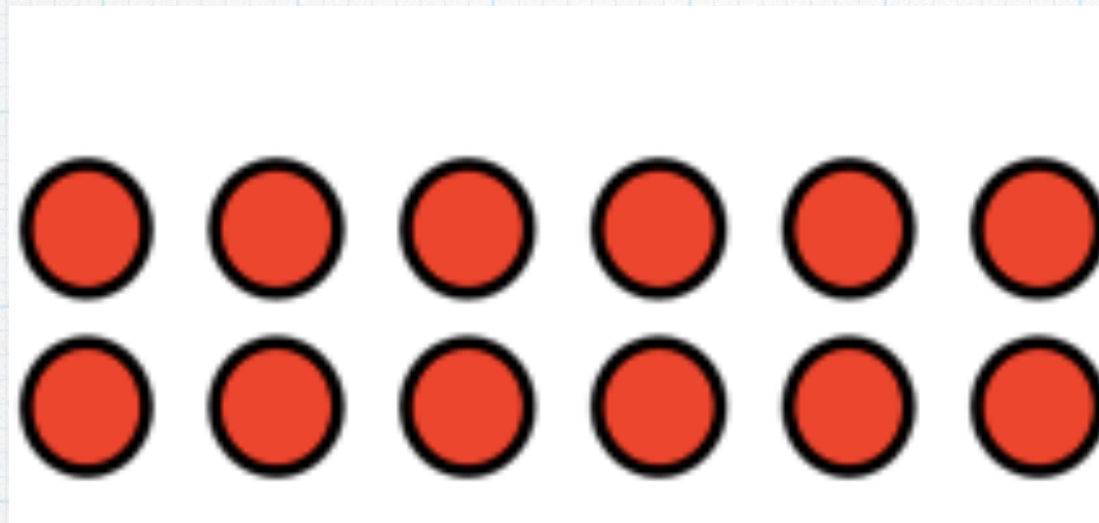
b) Find $\frac{2}{4}$ of 24 kg

kg

How did you work out the answers?



Reasoning



Tom and Freddie share the marbles.
Tom takes a half of them.


Freddie takes two quarters of them.

How many counters are left?

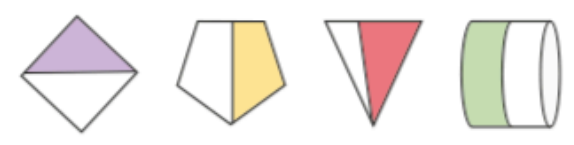
Independent

There is a second sheet for those who want to challenge themselves!

Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$




1 Circle the shapes that have $\frac{1}{2}$ shaded.




3 Here are two bar models.

a) Colour $\frac{2}{4}$ of the bar model.

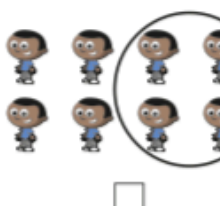
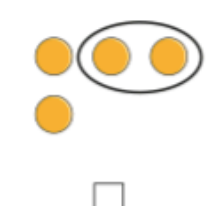

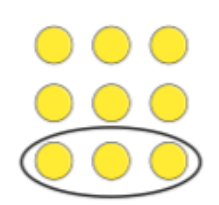


b) Colour $\frac{1}{2}$ of the bar model.




What do you notice? Talk to a partner.

2 Tick the groups that have $\frac{1}{2}$ circled.




4 Use the sweets to help you answer the questions.


a) What is $\frac{1}{2}$ of 12?



b) What is $\frac{1}{4}$ of 12?



c) What is $\frac{2}{4}$ of 12?



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Skill - I can find $\frac{3}{4}$

Spring 2
Week 5 - Lesson 4

Rapid Recall

Counting in fours with Numberrock

https://www.youtube.com/watch?v=UJY1_fzzM6Y

Big Question

Tommy has a jar of 12 cookies. He gives half of them to Alex, and $\frac{2}{4}$ of them to Mo.

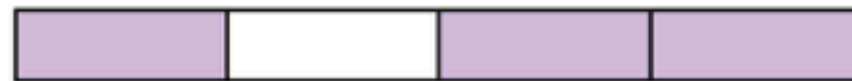
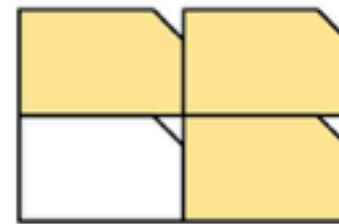
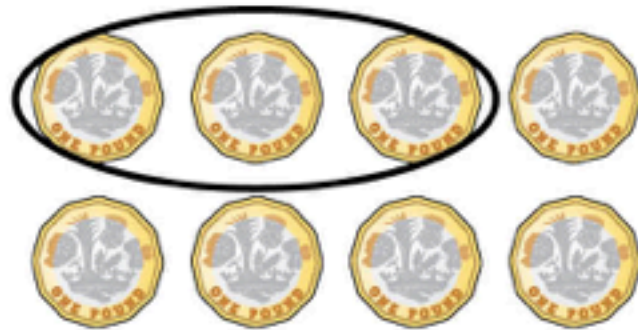


Who gets the most cookies?

Varied Fluency

Find three quarters

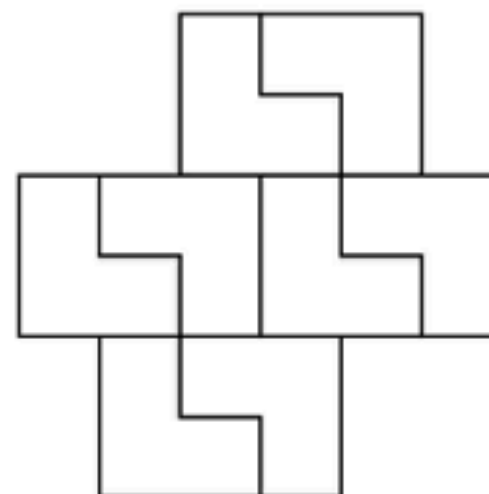
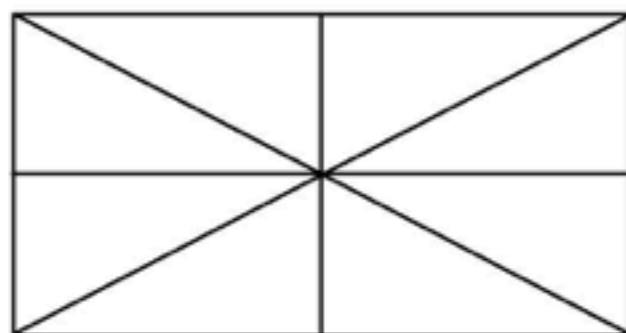
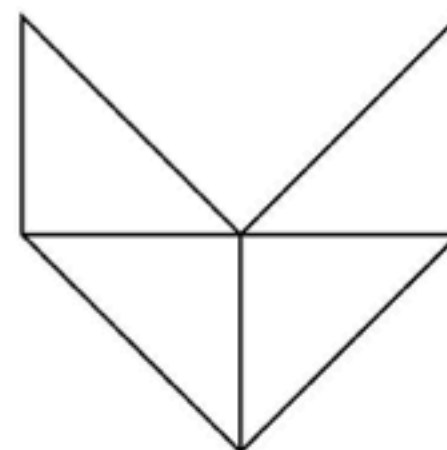
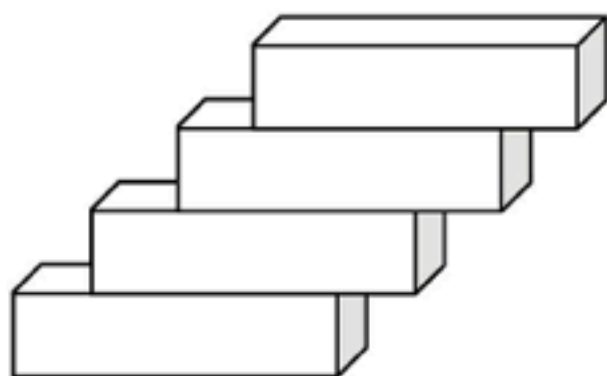
- 1 Tick the representations that show $\frac{3}{4}$



Varied Fluency



2 Colour $\frac{3}{4}$ of each shape.



Varied Fluency

- 3 Rosie is sharing out 16 strawberries.
She shares them into 4 equal groups.



- a) What is $\frac{1}{4}$ of the strawberries?

$$\frac{1}{4} \text{ of } 16 = \square$$

- b) What is $\frac{2}{4}$ of the strawberries?

$$\frac{2}{4} \text{ of } 16 = \square$$

Group activity

4 Work out $\frac{3}{4}$ of £20



£

Group activity

- 5 Year 2 are planting sunflower seeds.

Annie has 4 pots and 12 seeds.

She plants the same number of seeds in each pot.

- a) Draw the seeds she puts in each pot.



- b) Complete the number sentences.

$$\frac{1}{4} \text{ of } 12 = \square$$

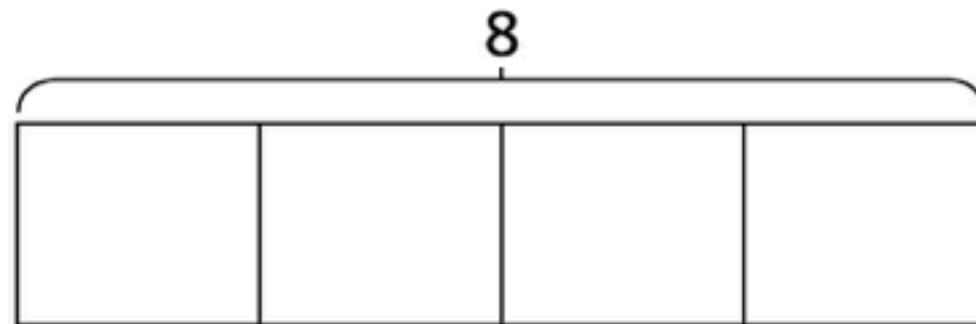
$$\frac{3}{4} \text{ of } 12 = \square$$

Varied Fluency

6 The bar model is split into 4 equal parts.

a) What is the value of each part?

Label it on the bar model.



b) Use the bar model to find $\frac{3}{4}$ of 8

Varied Fluency

- 7 Draw a bar model to find $\frac{3}{4}$ of 40



$$\frac{3}{4} \text{ of } 40 = \square$$

- 8 Write $<$, $>$ or $=$ to compare the statements.

a) $\frac{1}{4}$ of 4 $\frac{3}{4}$ of 4

b) $\frac{1}{2}$ of 20 $\frac{3}{4}$ of 20

Problem Solving

Scott has some seeds.

He puts $\frac{3}{4}$ of the seeds into his hand.



He puts the rest of the seeds on the table.

How many seeds does Scott have in his hand?

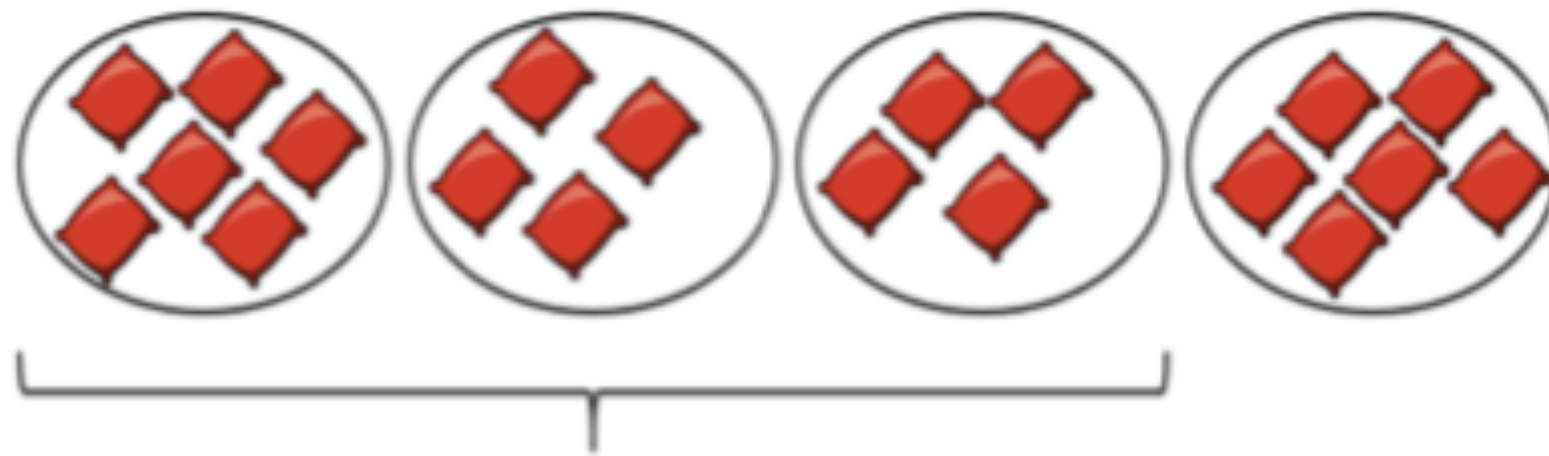
Use a bar model to help you.



Reasoning

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

Can you spot his mistake?



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

Independent

Date: Friday 27th March 2020
Skill: I can find $\frac{3}{4}$
Activity: To use knowledge of $\frac{3}{4}$ to solve problems.
Learning Power: Resilience

- Amir shares 12 beanbags into 4 equal groups. Use the image to complete the sentences.



One quarter of 12 is equal to ____
Two quarters of 12 is equal to ____
Three quarters of 12 is equal to ____
Four quarters of 12 is equal to ____

- Use counters and a bar model to help you find $\frac{3}{4}$ of 8 and $\frac{3}{4}$ of 16. What do you notice?



- Use counters, cubes, or bar models to help you fill in the blanks:

$\frac{1}{4}$ of 24 = <input type="text"/>	$\frac{1}{4}$ of 4 = <input type="text"/>	$\frac{1}{4}$ of <input type="text"/> = 5
$\frac{2}{4}$ of 24 = <input type="text"/>	$\frac{3}{4}$ of 4 = <input type="text"/>	$\frac{3}{4}$ of <input type="text"/> = 15
$\frac{3}{4}$ of 24 = <input type="text"/>	$\frac{1}{4}$ of 8 = <input type="text"/>	$\frac{1}{4}$ of <input type="text"/> = 2
$\frac{4}{4}$ of 24 = <input type="text"/>	$\frac{3}{4}$ of 8 = <input type="text"/>	<input type="text"/> of 8 = 6

Eva eats three-quarters of her sweets. She eats these sweets.



How many sweets does Eva have left?