

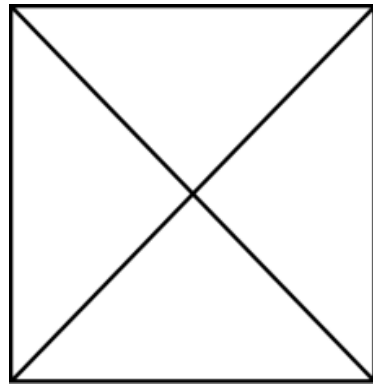
White

**Rose
Maths**

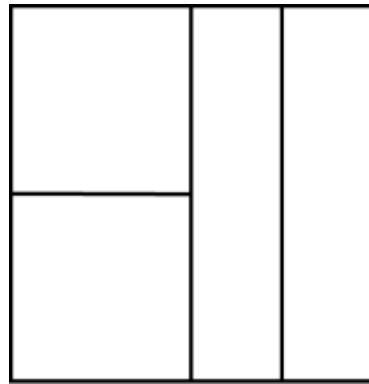
Year 2

Fractions

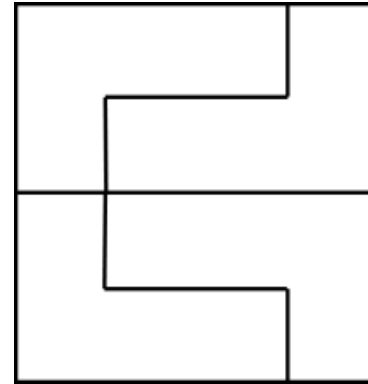
Three children are splitting a square into equal parts.



Teddy



Alex

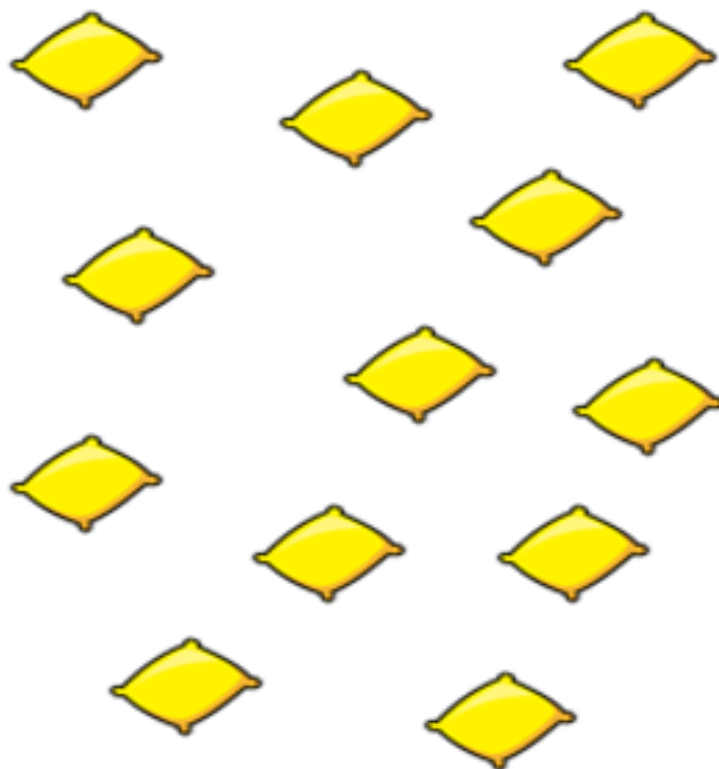


Mo

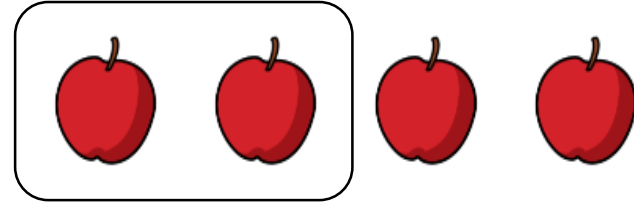
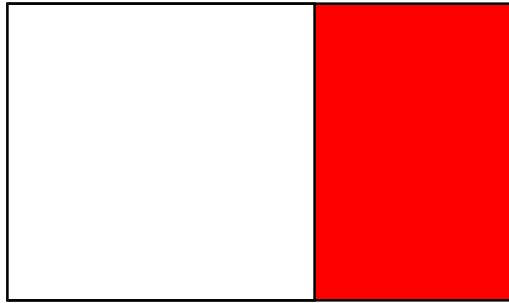
Who has split the square into equal parts?

Explain why.

How many different ways can you put these beanbags into equal groups?

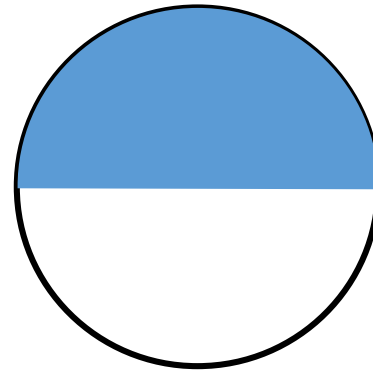


Which is the odd one out?
Explain your answer.

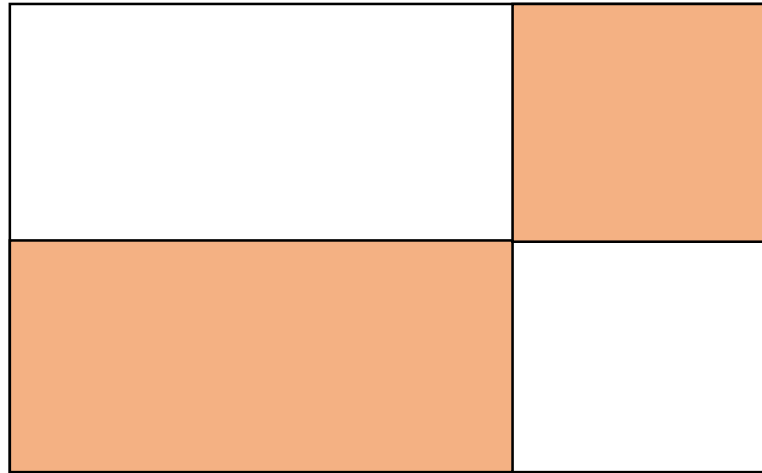


$$\frac{1}{2}$$

One half

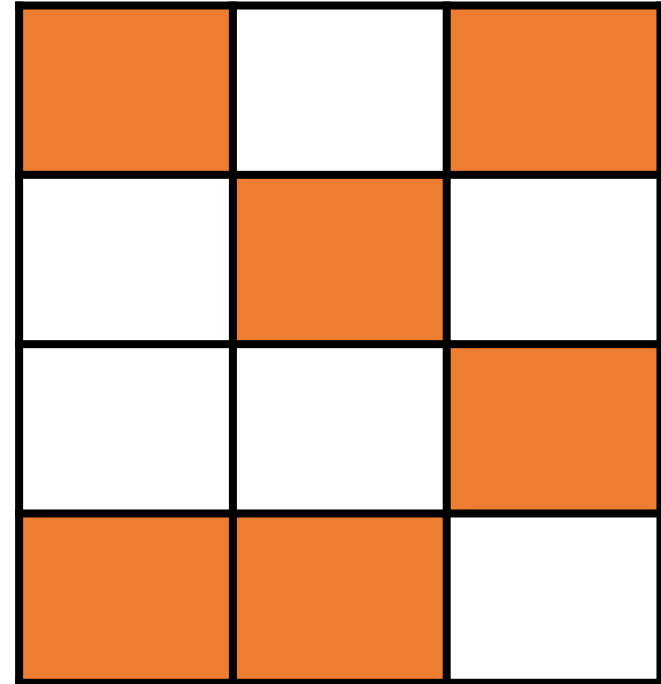


Rosie says the shaded part of the shape does not show a half because there are four parts, not two equal parts.



Do you agree? Explain why.

Dora is asked to shade half of her shape.
This is what she shades.



Is she correct? Explain why.

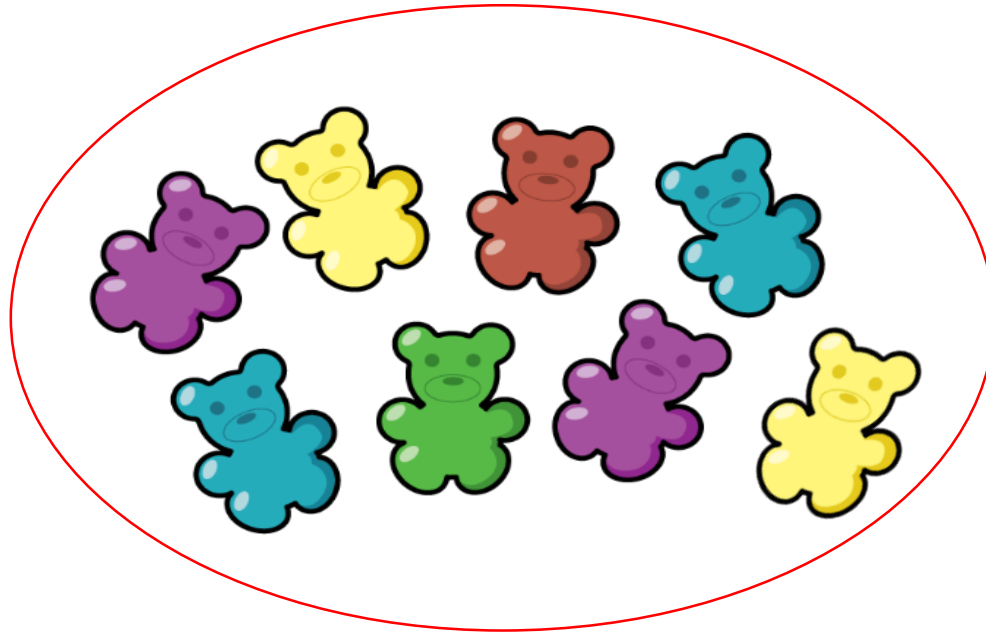
I am thinking of a number.

Half of my number is more than 10 but less than 15.

What could my number be?

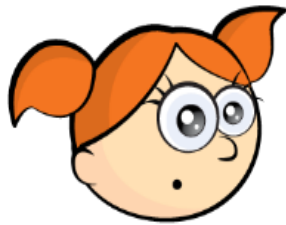
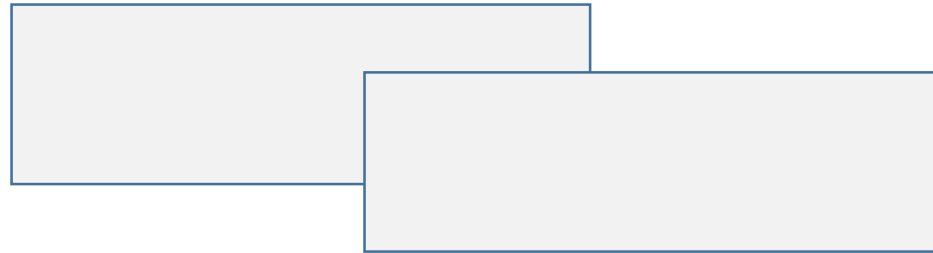
Annie has some gummy bears.

She circles half of them.



How many gummy bears did she have at the start?

Alex is folding two identical paper strips.

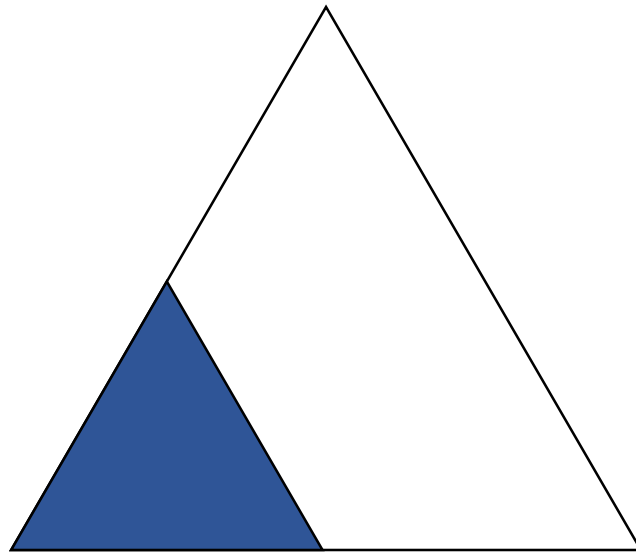


I think $\frac{1}{4}$ of the strip will be bigger than $\frac{1}{2}$ of the strip because 4 is bigger than 2

Use paper strips to prove Alex is incorrect.

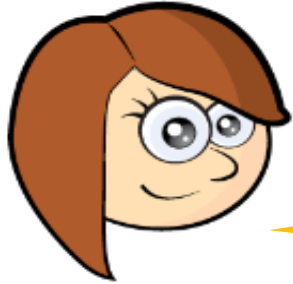
True or False?

$\frac{1}{4}$ of the shape is shaded.



Explain your answer.

Who has more? Explain why.



Rosie

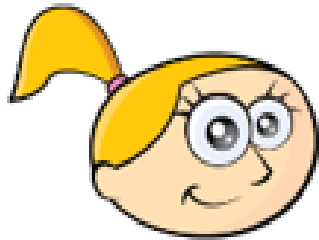
I have $\frac{1}{4}$ of £8



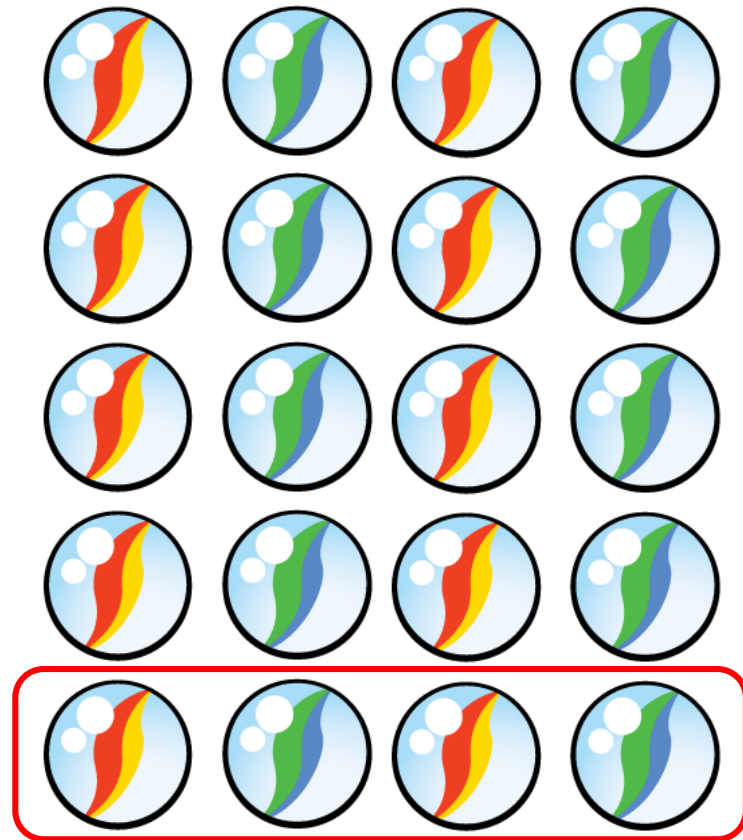
Whitney

I have $\frac{1}{2}$ of £6

Eva says,

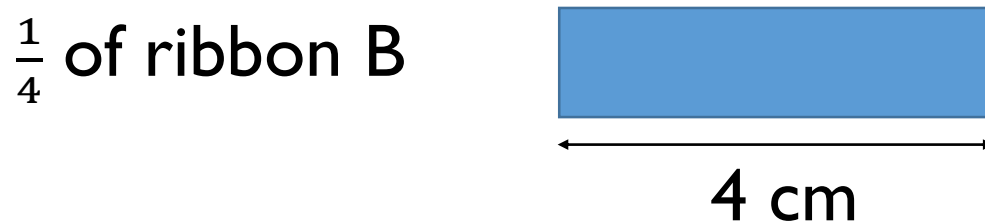
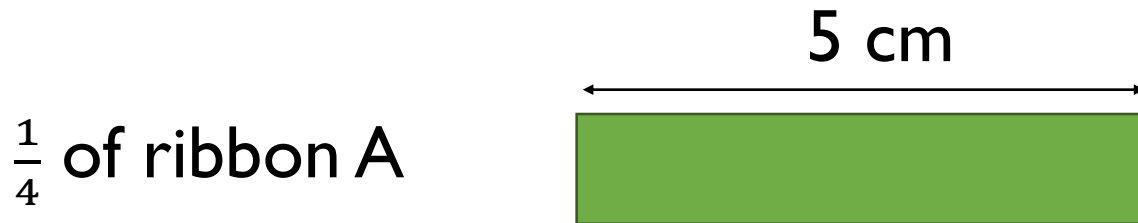


I have $\frac{1}{4}$
because I
have 4
marbles.



Do you agree? Explain why.

Mo has two ribbons. He cuts $\frac{1}{4}$ from each ribbon.



How long were Mo's whole pieces of ribbon?

Which ribbon was the longest? How much longer?

Dora says,



I have one third of a pizza because I have one slice and there are three slices left.

Do you agree? Explain your reasoning.

Alex, Annie and Whitney each show a piece of ribbon.

Whitney shows $\frac{1}{2}$ of her whole ribbon.



Alex shows $\frac{1}{4}$ of her whole ribbon.



Annie shows $\frac{1}{3}$ of her whole ribbon.

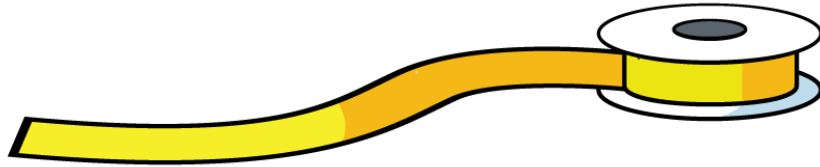


Whose whole piece is the longest?

Whose is the shortest?

Explain why.

Annie has a piece of ribbon.



She cuts it into three equal parts.

One third of the ribbon is 6 cm long.

How long would half the ribbon be?

Ron is thinking of a number.

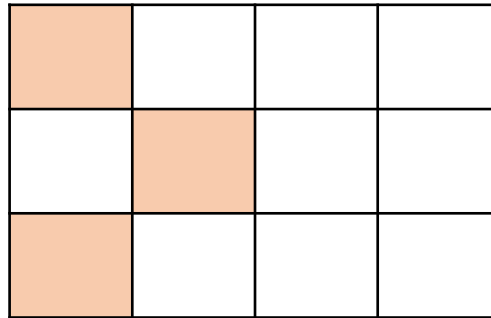


One third of his number is greater than 8 but smaller than 12.

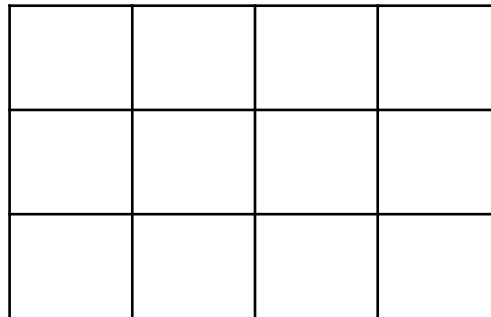
What could his number be?

True or False?

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



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



I am thinking of a number.



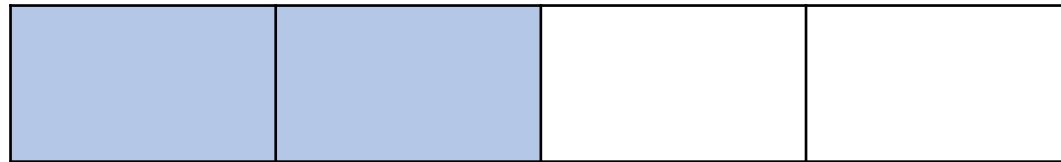
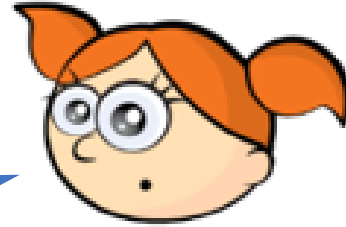
One third of my number is 12

Which will be greater, one half of my number or one quarter of my number?

Use cubes or a bar model to prove your answer.

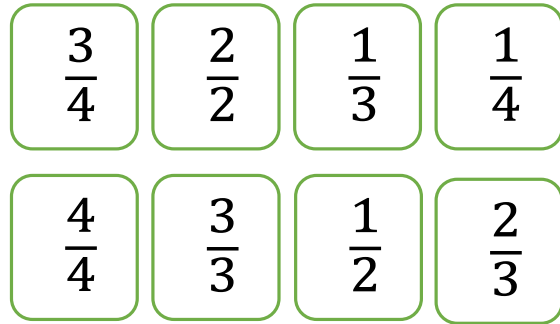
Alex says,

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



What mistake might Alex have made?

Sort the fractions into the table.



	Fractions equal to one whole	Fractions less than one whole
Unit fractions		
Non-unit fractions		

What do you notice?

Are there any boxes in the table empty?

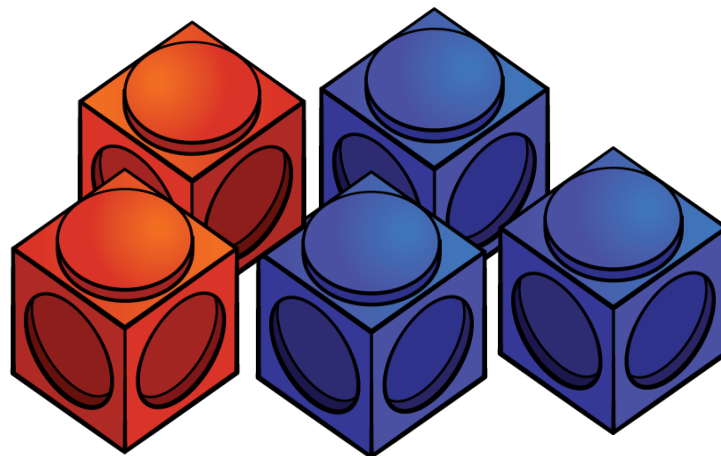
What fraction could you write here?

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?

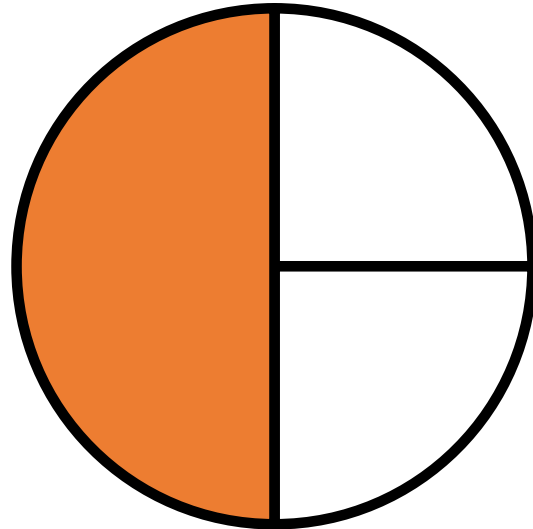
Using red and blue cubes, build two towers to convince me that $\frac{1}{2}$ and $\frac{2}{4}$ are equal.



Whitney says:



I have shaded a
third of my shape.

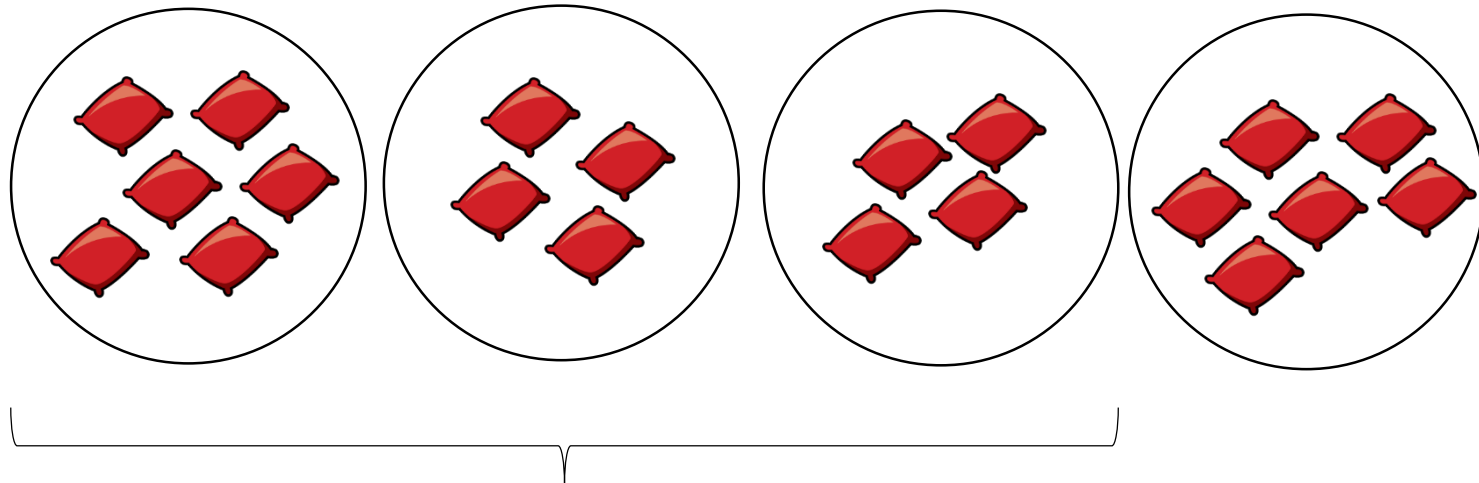


Do you agree?
Explain why.

Why do you think Whitney thinks this?

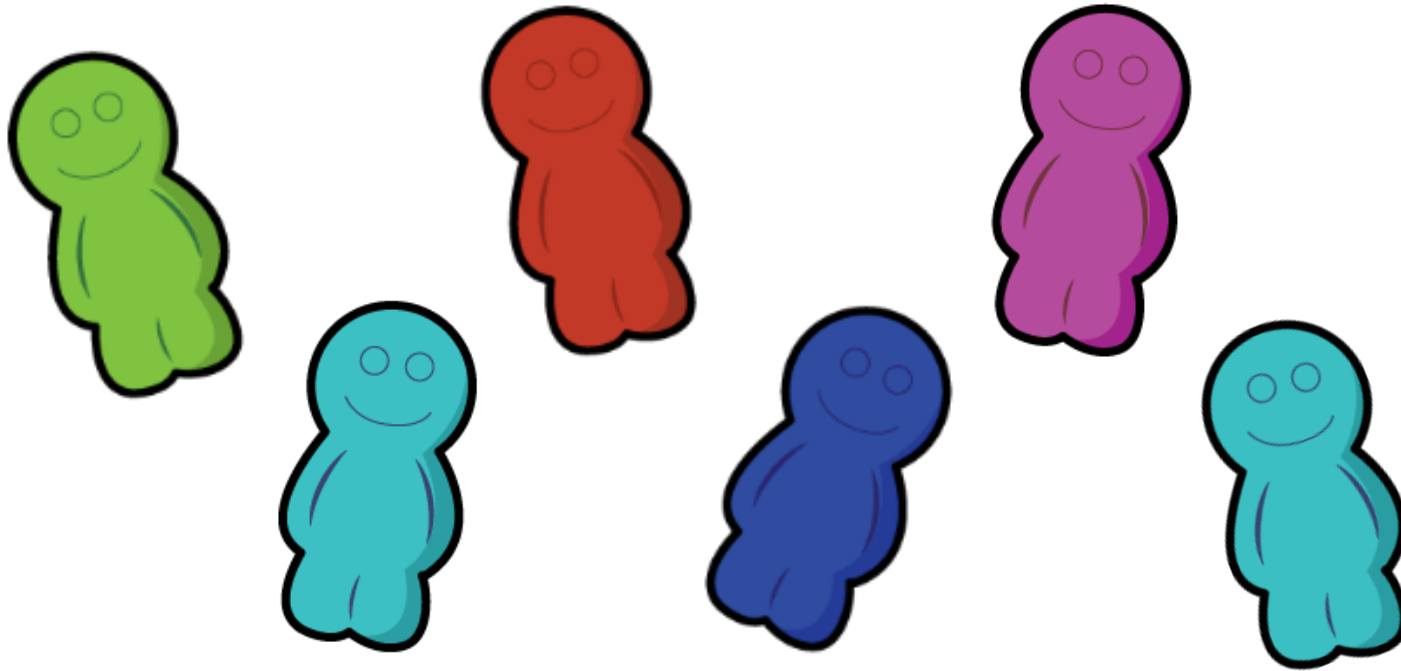
Amir is using beanbags and hoops to find three quarters of 20

Can you spot his mistake?



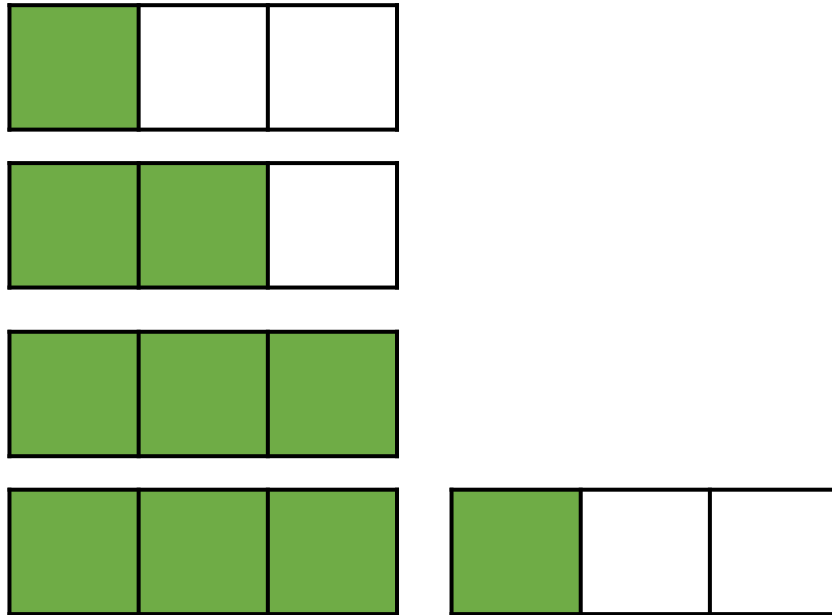
$$\frac{3}{4} \text{ of } 20 = 14$$

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



How many sweets does Eva have left?

Look at this pattern.



What would come next?

Write the next fraction and draw the representation.

What would be the 8th fraction in the pattern?

Alex and Whitney are counting in quarters.



Alex

One quarter, two quarters,
three quarters, four
quarters...

One quarter, one half, three
quarters, one whole...



Whitney

Who is correct? Explain your answer.