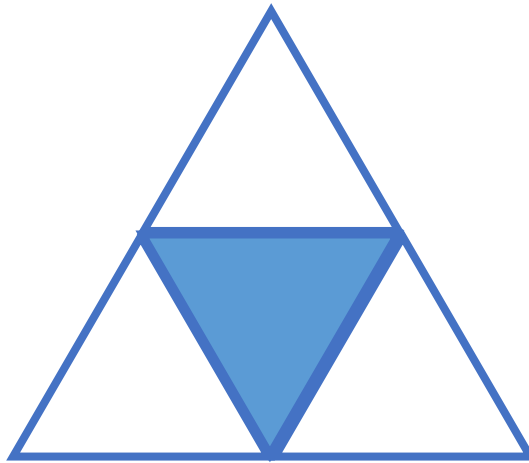**White Rose Maths**

Year 3

Fractions

True or False?

$\frac{1}{3}$ of the shape is shaded.

Sort the fractions into the table.

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

Are there any boxes in the table empty? Why?

$\dfrac{3}{4}$ $\dfrac{1}{2}$ $\dfrac{3}{5}$ $\dfrac{1}{3}$ $\dfrac{1}{4}$ $\dfrac{2}{2}$ $\dfrac{4}{4}$ $\dfrac{2}{5}$

Teddy says,

I have one pizza cut into 6 equal pieces. I have eaten $\frac{6}{6}$ of the pizza.

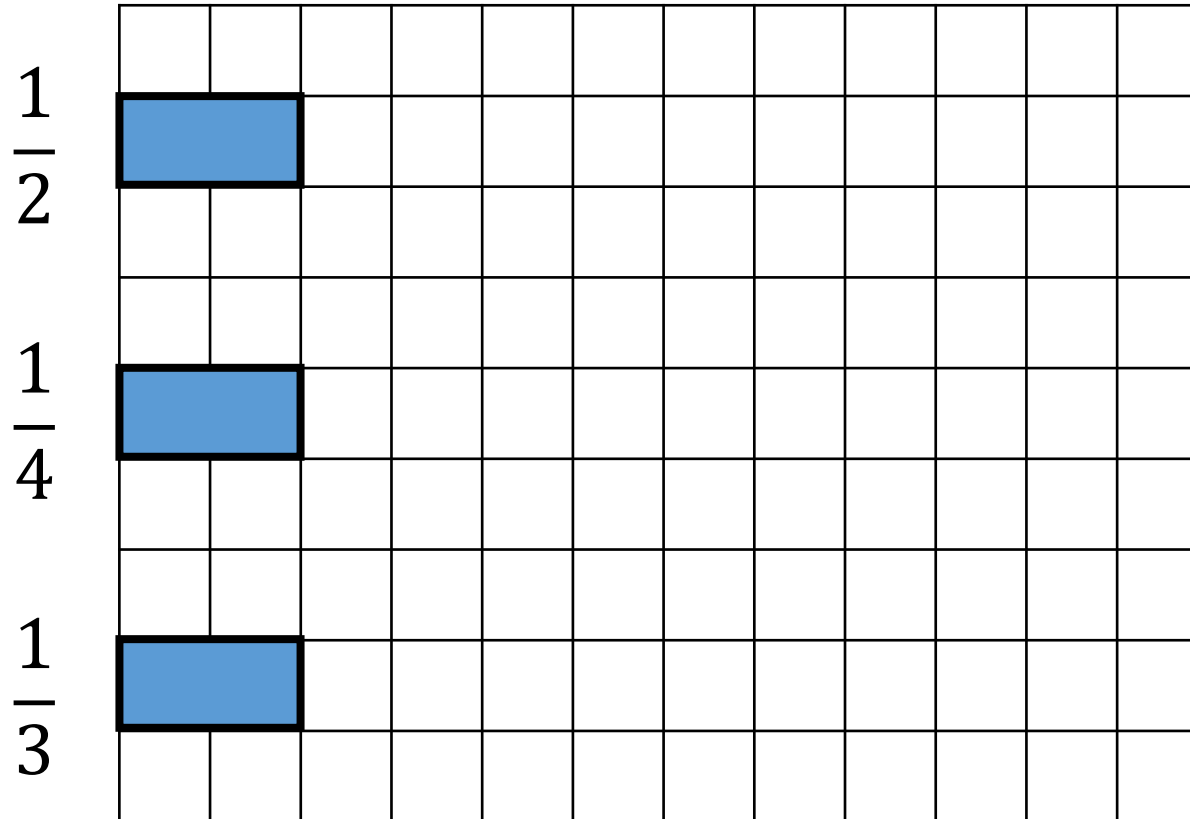Does Teddy have any pizza left?
Explain your answer.

Complete the sentence.

When a fraction is equal to a whole, the numerator and the denominator are

_____ .
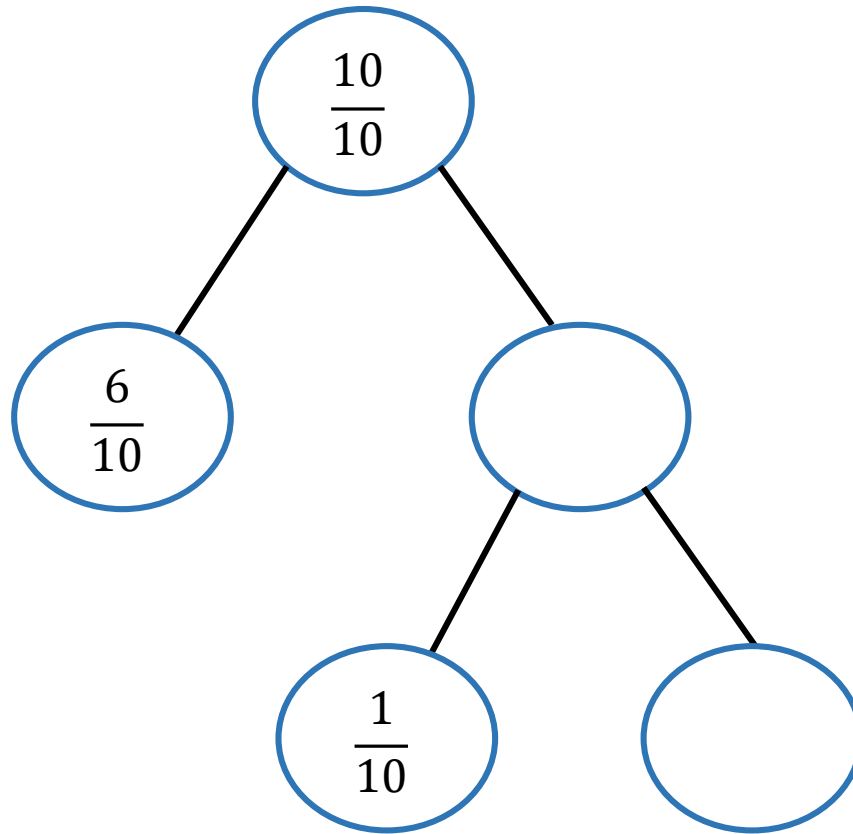
Use pictures to prove your answer.

Rosie is drawing bar models to represent a whole.
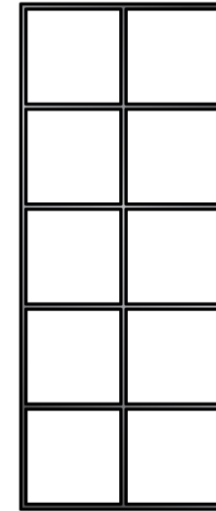She has drawn a fraction of each of her bars.

$\dfrac{1}{2}$

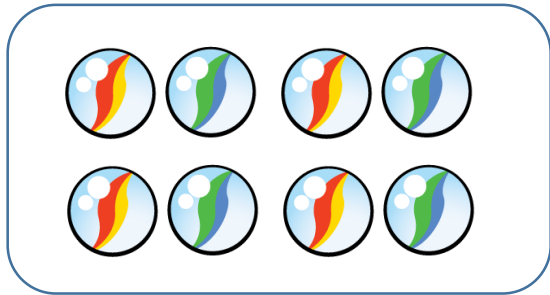$\dfrac{1}{4}$

$\dfrac{1}{3}$

Can you complete Rosie's bar models?

Fill in the missing values.
Explain how you got your answers.

$$\frac{10}{10}$$

$$\frac{6}{10}$$

$$\frac{1}{10}$$

Odd One Out

Which is the odd one out?
Explain your answer.

Teddy is counting in tenths.

Seven tenths, eight tenths, nine tenths, ten tenths, one eleventh, two elevenths, three elevenths…

Can you spot his mistake?

True or False?

Five tenths is $\frac{2}{10}$ smaller than 7 tenths.

Five tenths is $\frac{2}{10}$ larger than three tenths.

Do you agree?

Explain why.

True or False?

Dora

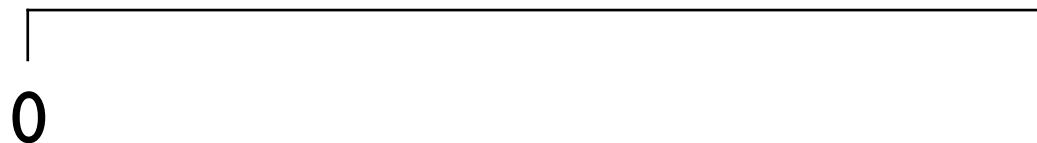10 cm is one tenth of 1 metre

10 cm is 0.1 metres.
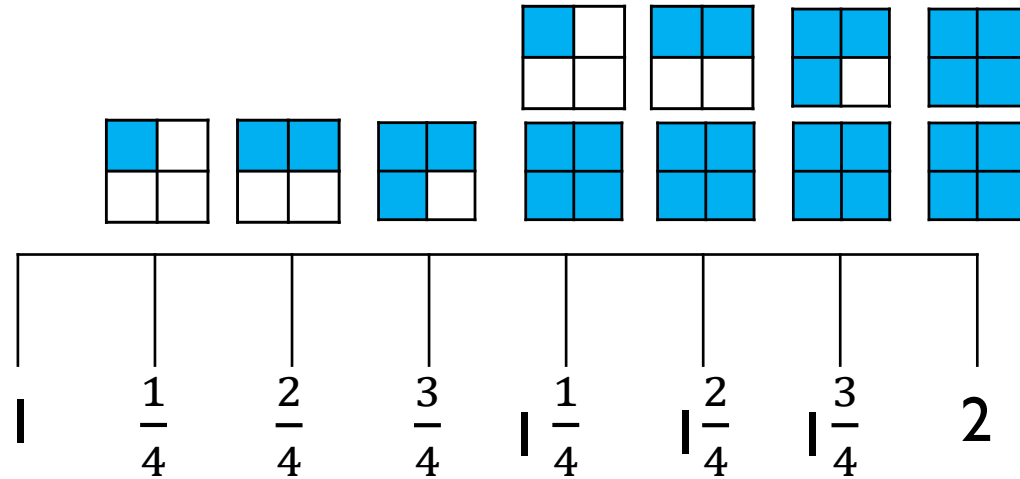
Amir

Explain your answer.

Place the decimals and fractions on the number line.

$$0.7 \quad \frac{3}{10} \quad \frac{1}{10} \quad 0.9 \quad \frac{10}{10}$$

0   1

Eva has drawn a number line.

Tommy says it is incorrect.

Do you agree with Tommy?
Explain why.
Can you draw the next three fractions?

Alex and Jack are counting up and down in thirds.

Alex starts at $5\frac{1}{3}$ and counts backwards.

Jack starts at $3\frac{1}{3}$ and counts forwards.

What fraction will they get to at the same time?

Whitney has 12 chocolates.

On Friday, she ate $\frac{1}{4}$ of her chocolates and gave one to her mum.

On Saturday, she ate $\frac{1}{2}$ of her remaining chocolates, and gave one to her brother.

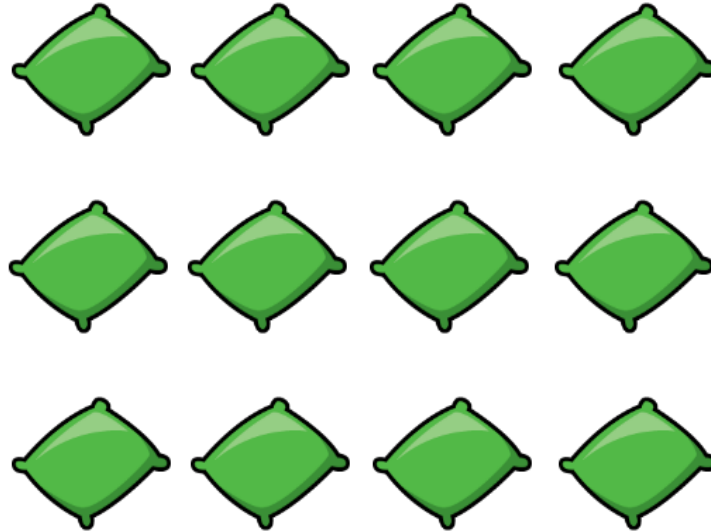On Sunday, she ate $\frac{1}{3}$ of her remaining chocolates.

How many chocolates does Whitney have left?

Fill in the Blanks

$$\frac{1}{3} \text{ of } 60 = \frac{1}{4} \text{ of } \boxed{}$$

$$\frac{1}{\boxed{}} \text{ of } 50 = \frac{1}{5} \text{ of } 25$$

This is $\frac{3}{4}$ of a set of beanbags.

How many were in the whole set?

Ron has £28

On Friday, he spent $\frac{1}{4}$ of his money.

On Saturday, he spent $\frac{2}{3}$ of his remaining money and gave £2 to his sister.

On Sunday, he spent $\frac{1}{5}$ of his remaining money.

How much money does Ron have left?

What fraction of his original amount is this?

Mo makes 3 rugby shirts.

Each rugby shirt uses 150 cm of material.

He has a 600 cm roll of material.

How much material is left after making the 3 shirts?

What fraction of the original roll is left over?

Alex and Eva share a bottle of juice.

Alex drinks $\frac{3}{5}$ of the juice.

Eva drinks 200 ml of the juice.

One fifth of the juice is left in the bottle.

How much did Alex drink?

What fraction of the bottle did Eva drink?

What fraction of the drink is left?