

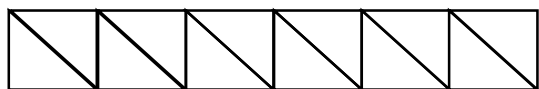
Recognise a third



Problem solving and reasoning cards:



To show one third I will shade less than 5 triangles.

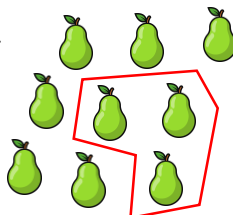


Is Jess correct? Explain how you know.

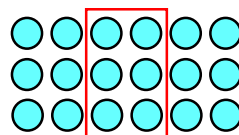
Colour the picture to show $\frac{1}{3}$.

Each picture represents one third.
Spot the mistake.
Explain your answer.

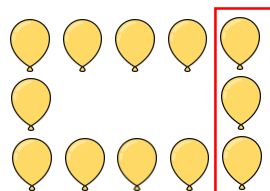
A



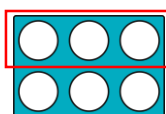
B



D



C



Sue, Gina and Asha each show a piece of ribbon.

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



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



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



Whose whole ribbon is the longest and whose is the shortest? Explain why.



If a shape has been split into 18 parts. I would need to shade 3 to show $\frac{1}{3}$.

Is Kat correct? Explain your answer.

Show this on a diagram.

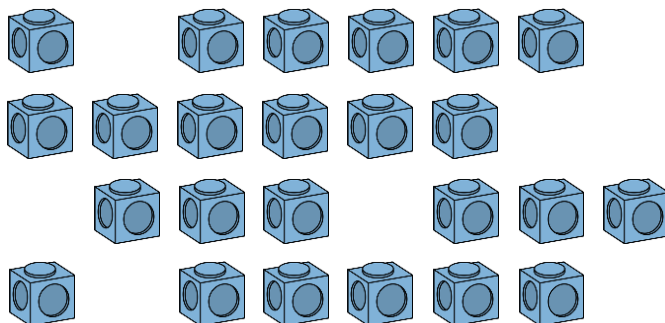
Dom asks,



Is one third of 27 greater than one quarter of 36?

Explain how you know.

How many cubes need to be circled to represent one third?



Show this.

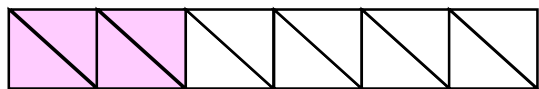
Recognise a third



Problem solving and reasoning cards:



To show one third I will shade less than 5 triangles.



Is Jess correct? Explain how you know.
Colour the picture to show $\frac{1}{3}$.

Yes Jess is correct. Four triangles would need to be shaded to show one third.

Sue, Gina and Asha each show a piece of ribbon.

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



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



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



Sue's is the longest as she will have 4 parts altogether so four times the length.

Gina's is the shortest as she only has 2 parts altogether.

Whose whole ribbon is the longest and whose is the shortest? Explain why.

Dom asks,

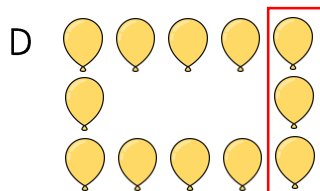
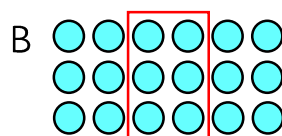
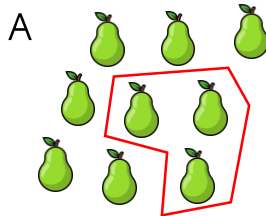


Is one third of 27 greater than one quarter of 36?

Explain how you know.

No.
One third of 27 = 9
One quarter of 36 = 9.
Therefore they are equal to each other.

Each picture represents one third.
Spot the mistake. Explain your answer.



C – 3 have been circled instead of 2.

D – 3 have been circled instead of 4.



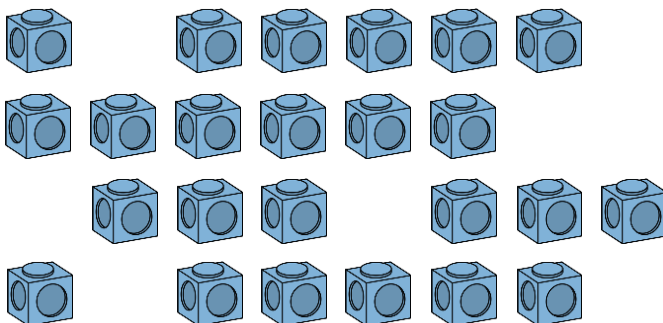
If a shape has been split into 18 parts. I would need to shade 3 to show $\frac{1}{3}$.

Is Kat correct? Explain your answer.
Show this on a diagram.

No. 6 parts would need to be shaded to show $\frac{1}{3}$.



How many cubes need to be circled to represent one third? 8 cubes



Show this. (Children will circle 8 cubes.)