FLUENCY TASKS



YR5 PROGRESSION IN MASTERY LESSON PACK - AREA OF RECTANGLES

FLUENCY 1

Caleb is creating a fireplace.

It must be rectangular and have an area of 36m².





How many different ways could he create the fireplace?

$$AREA = x$$

FLUENCY 2

A swimming pool measures 25m by 50m.

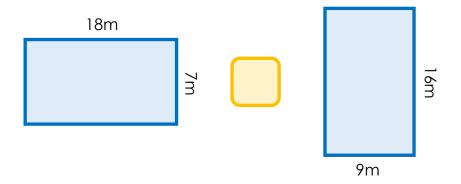
There is a 5m border around the pool for safety.



What is the total area that the swimming pool and safety area occupies?

FLUENCY 3

Greater than or less than?



FLUENCY 4

Miss Jones wants to sit her pupils in groups. Each group would take up a space measuring 2m by 3m.







If Mrs Jones' classroom measures 7m by 10m, how many groups will she be able to have?





YR5 PROGRESSION IN MASTERY LESSON PACK - AREA OF RECTANGLES

REASONING 1

True or False?



The area of a rectangle can never be a prime number.

Explain your reasoning using examples!

REASONING 2

Ranjit is investigating the rectangles he can draw with an area of 100cm².

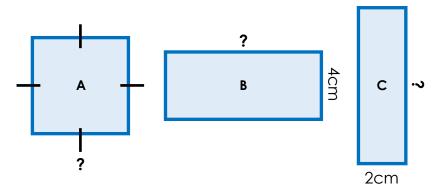


Do you agree or disagree? Explain your reasoning!

REASONING 3

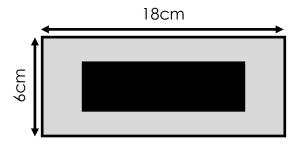
Each shape has an area of 64cm².

Is it possible to find the missing lengths? Prove it!



REASONING 4

The black shape is 3 times smaller than the grey shape.



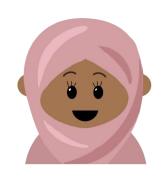
Asha says: "The area of the grey shape is 108 cm²."

Is she correct? Convince Me!





YR5 PROGRESSION IN MASTERY LESSON PACK - AREA OF RECTANGLES



PROBLEM SOLVING 1

Asha is building a doll's house.

She wants the following rooms to be in the house:

Lounge - Area of 168cm²

Kitchen - Area of 96cm²

Bathroom - Area of 96cm²

Bedroom - Area of 216cm²

Dining Room - Area of 144cm²



The house will only have one storey.

Each of the rooms must be square or rectangular.

Draw a floor plan to show what Asha's doll's house could look like.

