

Year 7 Maths

Hannah's (7C) Practical Pythagoras' Theorem Work:

TASK 1

- Find 12 different objects in your home or garden that are rectangular.
- Firstly, measure and record two of the dimensions for each object.

PLEASE DO NOT MEASURE THE DIMENSIONS THAT ARE GREYED OUT!!!

You shall then be able to apply your skills and learning of Pythagoras' Theorem to calculate the **GREYED OUT** dimension.

- Write down an ESTIMATE for the missing dimension, before you then...
- Use a calculator and record the exact answer (correct to 1 decimal place).

	WIDTH	LENGTH	DIAGONAL
TV Screen	cm	cm	Estimate is cm
			Answer is cm
Front Door			Estimate is
			Answer is
A window pane			Estimate is
			Answer is
A wardrobe door			Estimate is
			Answer is
A table top or desk top		Estimate is	
		Answer is	
The front cover of a book	Estimate is		
	Answer is		
		Estimate is	
		Answer is	

Hannah's work: TASK 1

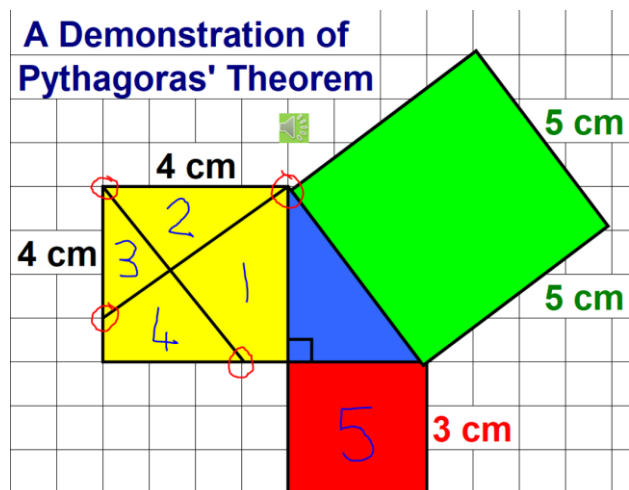
	WIDTH	LENGTH	DIAGONAL
1) TV Screen	111cm	64cm	Estimate is 125cm Answer is 128.1cm
2) Front Door	91cm	220cm	Estimate is 232cm Answer is 238.1cm
3) A window pane	75cm	125cm	Estimate is 135cm Answer is 154.4
4) A wardrobe door	75cm	195	Estimate is 215cm Answer is 145.8cm
5) A table top or desk top	105cm	Estimate is 55cm Answer is 50cm	118.5cm
6) Front cover of a book	Estimate is 10cm Answer is 13cm	20cm	23.9cm
7) Bed frame	143cm	Estimate is 189cm Answer is 198	244.2cm
8) Fish tank	35cm	38cm	Estimate is 48cm Answer is 51.7cm
9) Mirror	43cm	Estimate is 125cm Answer is 135cm	141.7cm
10) Dog calendar	Estimate is 13cm Answer is 15cm	42cm	44.6cm
11) Picture frame	50cm	Estimate is 52cm Answer is 55cm	74.3cm
12) Fire place	74cm	98cm	Estimate is 120cm Answer is 122.8



Well done Hannah, I hope you enjoyed investigating this topic in a practical way.

TASK 2

By drawing out the shape, can you cut out the 5 pieces and fit it inside the green square:



Hannah's work: TASK 2



Fantastic work and beautifully presented!

