

# Year 6

Friday 1<sup>st</sup> May 2020

Maths

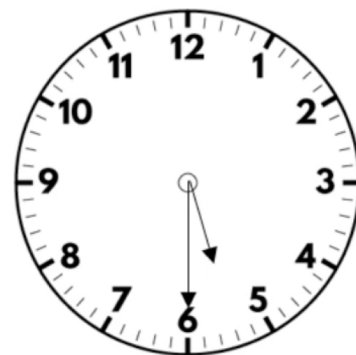


LO: to solve problems including a variety of methods.

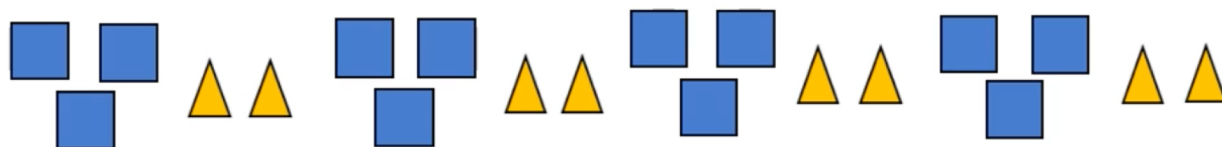
A video of the lesson is available here.  
Summer Term - Week 2 - Lesson 4

This link will only work on the PDF or link above this power point.

- 1) For every 3 pens Alex has, she has 4 pencils.  
Alex has 12 pens.  
How many pencils does she have?



- 2) What is the ratio of triangles to squares?



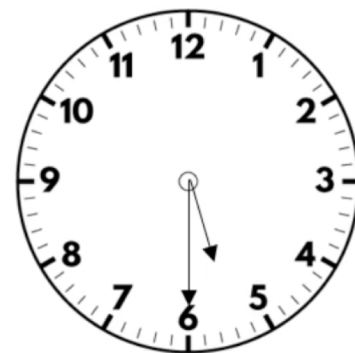
- 3) **Riddle of the Day:**  
What tastes better than it smells?

- 4) Which of these are square numbers?

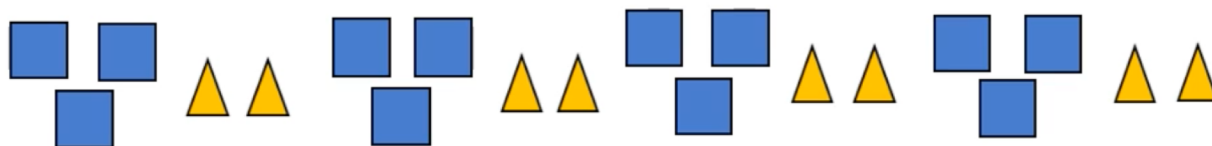
1      8      16      49      60

- 1) For every 3 pens Alex has, she has 4 pencils.  
Alex has 12 pens.  
How many pencils does she have?

16



- 2) What is the ratio of triangles to squares?



2 : 3

- 3) Riddle of the Day Answer:  
A tongue!

- 4) Which of these are square numbers?

1, 16 and 49

1      8      16      49      60

Whole unknown...

?			
15	15	15	15

4 children go to the cinema. They each pay £15. How much do they spend altogether?

Size of groups unknown...

60			
?	?	?	?

4 children go to the cinema. They pay £60 altogether. How much do they spend each?

Number of groups unknown...

60			
15			

Tickets to the cinema are £15. Some children buy tickets that cost £60. How many children bought tickets?



### Example question:



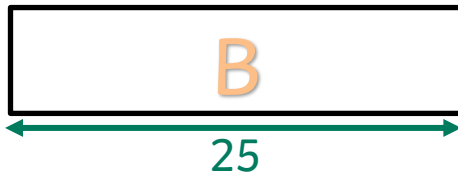
A rectangle is cut into two pieces.



The area of part A is twice as large as part B.

Part B has an area of  $25 \text{ cm}^2$ .

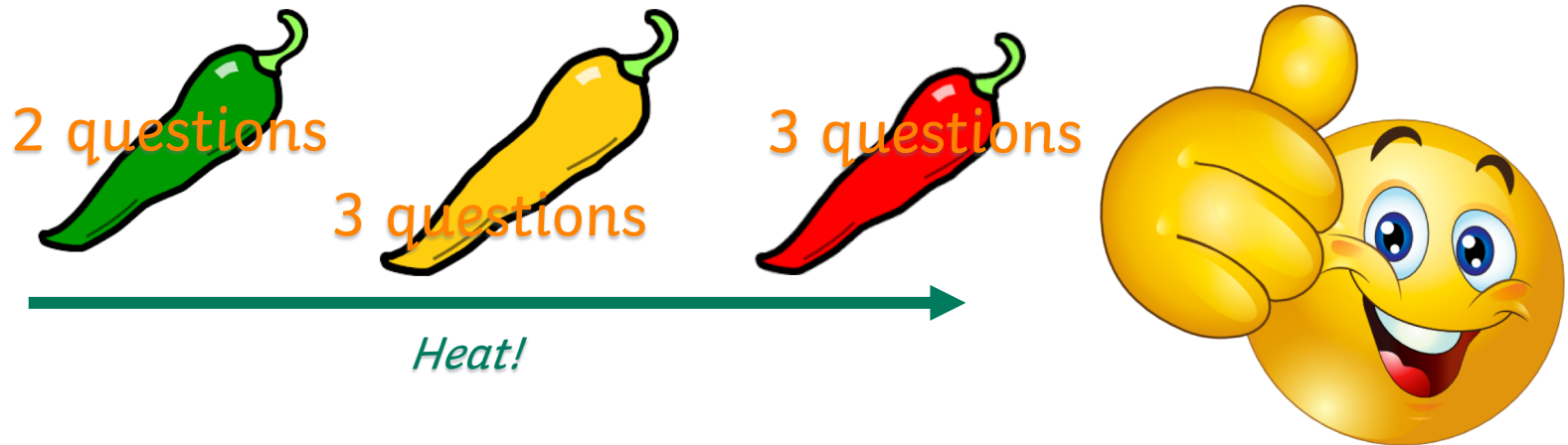
A) What is the area of the whole rectangle?




# Independent work

Independent work continues on the following slide.

Chili challenge! Remember to choose the challenge that is right for you! Too easy will be boring and too hard will be frustrating.



[The video lesson is available here](#)  
Summer Term 1 - Week 2 – lesson 4


1.  A rectangle is cut into two pieces.



The area of part A is twice as large as part B.

Part B has an area of  $14\text{cm}^2$ .


A) What is the area of the of the whole rectangle?

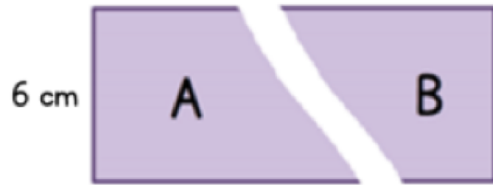
2.  Tommy is getting a taxi home.

The taxi company charges at the following rate.

Taxi Fares	
First 5 mins	£5
Next 5 mins	£4
Every following minute	£1

- A) If Tommy's journey home takes 15 minutes. How much will it cost him?
- B) If Tommy's journey takes 20 minutes how much will it cost him?


1.  A rectangle is cut into two pieces.



The area of part A is double the size of part B.

Part B has an area of  $16 \text{ cm}^2$ .

- A) What is the area of the whole rectangle?
- B) What is the length of the rectangle?

2.  Tommy is getting a taxi home.

The taxi company charges at the following rate.

Taxi Fares	
First 5 mins	£5
Next 5 mins	£4
Every following minute	£0.50

- A) If Tommy's journey home takes from 15.55 to 16.11.  
How much will it cost him?

# Problem Solving



Your turn

3. A rectangle is cut into two pieces.



The area of B is  $\frac{2}{7}$  of the area of the rectangle.

The area of A is  $36 \text{ cm}^2$  greater than the area of B.

What is the length of the rectangle?

1.



The area of B is 40% of the area of the rectangle.

A is cut in half to make shape C and D.

The area of B is  $8 \text{ cm}^2$  greater than the area of C and D.

What is the area of the whole rectangle?

# Problem Solving



Your turn

2. Tommy is getting a taxi home.



The taxi company charges at the following rate.

Taxi Fares	
First 5 mins	£3.80
Next 5 mins	£3.10
Every following minute	40p

The taxi leaves school at 3.47 p.m.

It arrives at Tommy's home at 16.04

How much does the fare cost?

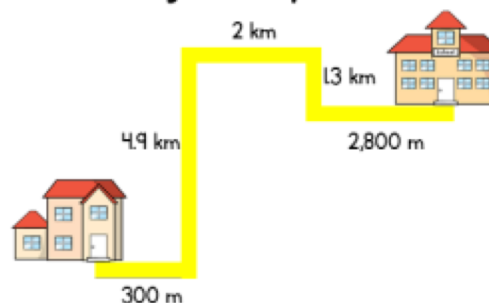
3. Eva is getting a taxi home.



The taxi company charges at the following rate.

Taxi Fares	
First 3 km	£3.80
Next 5 km	£3.10
Every following km	40p

This is her journey home.



How much does the fare cost?