

# Monday – Correspondence Problems

1. Mr Hill has five different-coloured stickers that he uses in class. Each colour comes in a different design. Mr Hill thinks he can make 11 combinations.

Sticker colour	Sticker design
orange	smiley face
yellow	books
silver	animals
purple	star
green	flag
	cake

$$5 + 6 = 11 \text{ combinations}$$

Correct the mistake(s) above to show how many combinations he can use in total.

2. There are three shops each with three shelves of different food. Find the odd one out in the total number of different combinations of food at each stall.

A.



B.

2 flavours of crisps

8 types of drink

2 types of sweets

C.



3. Rupert has 15 Prodeemon cards which come in 3 varieties – normal, shiny and legendary. He has to pick one from each category for a Prodeemon battle.



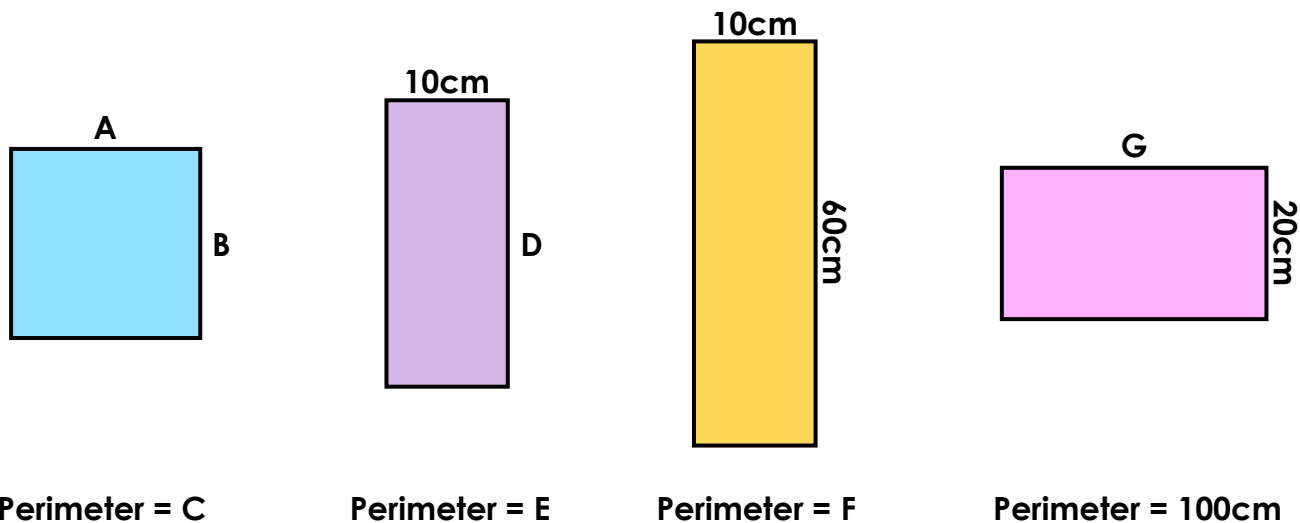
All of my cards are different. I have 6 normal cards, 4 shiny cards and 5 legendary cards. I can take one of more than 100 combinations into battle.

Is Rupert correct? Explain your answer.

## Tuesday – Perimeter of a Rectangle

1. Hannah has a square and 3 other rectangles. She has written the perimeter of one rectangle underneath it.

Some information is missing but the total perimeter of all 4 shapes is 420cm.



*not to scale*

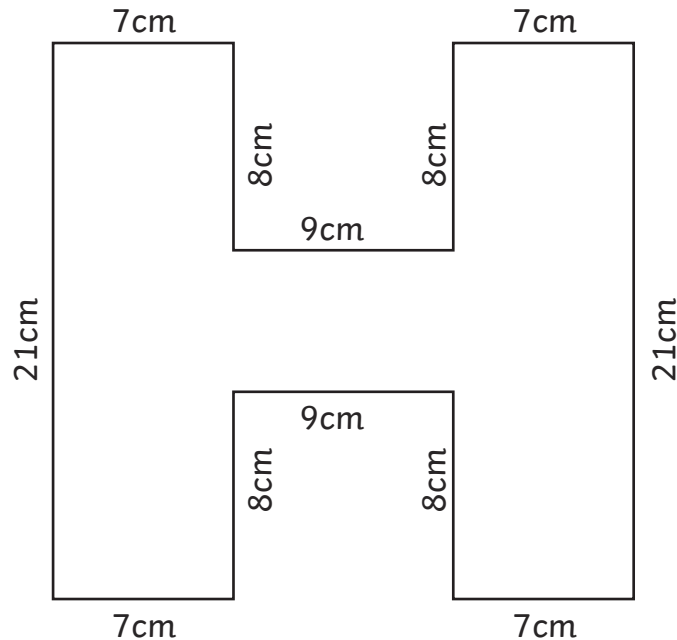
Using the information given, investigate what the missing values and the perimeters of each shape could be.

Letter	Missing Value
A	
B	
C	
D	
E	
F	
G	

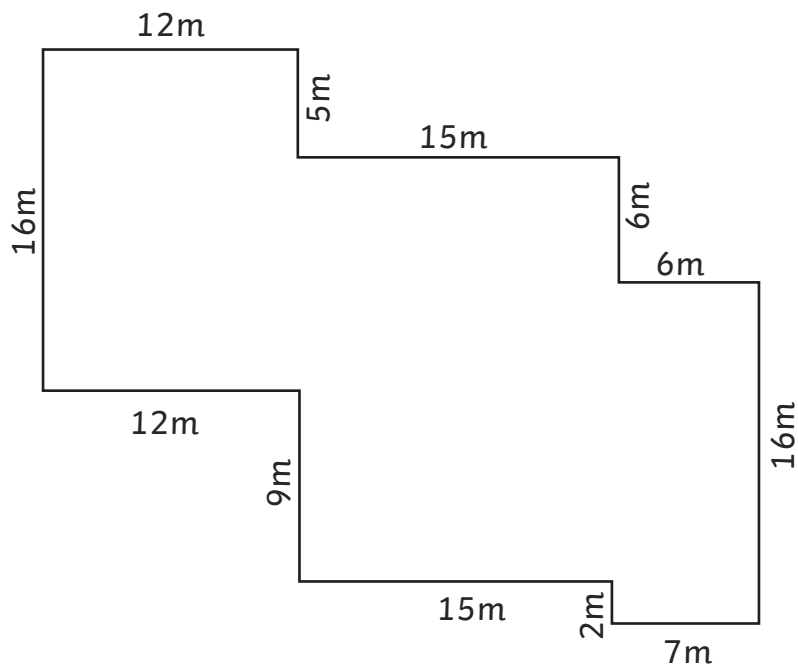
Letter	Missing Value
A	
B	
C	
D	
E	
F	
G	

# Perimeter Word Problems

3. Harry has designed a T-shirt with his initial on it. He wants to go around the edge of the letter in shiny black fabric paint to make it stand out. Work out the perimeter of the shape so that Harry can work out how much paint he needs.



4. The school caretaker needs to paint a white line around the perimeter of the staff car park at school. Use the diagram to work out the length of the white line she will need to paint.



# Measuring Area of Chocolate Boxes

Find the area of the chocolate boxes and record your answers

1.		2.	
	Area = <input type="text"/>		Area = <input type="text"/>
3.		4.	
	Area = <input type="text"/>		Area = <input type="text"/>
5.			Area = <input type="text"/>
	Area = <input type="text"/>		