

# Maths Challenge Cards



Are you a maths whizz ?

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★ How many 20p coins are there in £2.00?

★ How many more 20p coins would you need to make £3.00?

★ Explain to a friend or teacher how you worked this out.



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★ Sort these numbers into 'multiples of 5' and 'not multiples of 5' :

★ 1, 2, 3, 4, 5, 6, 7, 8, 9,  
10, 11, 12, 13, 14, 15.

★ What do you notice?

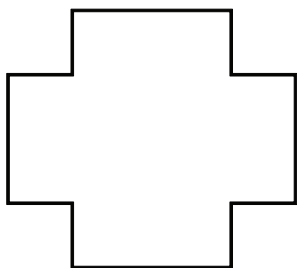


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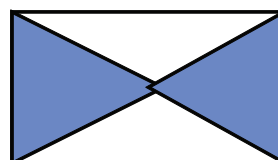


★ Draw this shape and shade in  $\frac{1}{2}$  of it.

★ Draw this shape and shade in  $\frac{1}{3}$  of it.



★ What fraction of this shape is shaded?



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★ I am a 2-digit number. My digits total 7 and I have a difference of 1.

★ Who am I?

★ Explain how you worked out the answer to a friend or teacher.



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- ★ Thinking caps on!
- ★ Draw the grid using a ruler.
- ★ Now place the numbers 1 - 9 in the grid so that the total of every


row is 15.



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- ★ What is the largest 4-digit number that can be made using the digits 2, 7, 4, 5?
- ★ What is the smallest 4-digit number that can be made using the digits 2, 7, 4, 5?
- ★ Make a number using the digits 2, 7, 4, 5 that is 1000 less than six thousand, seven hundred and forty two.



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Which is the most sensible estimate for the length of your foot?  
20m, 16cm, 12km, 8mm.

★ List three things you would measure in mm.

★ List three things you would measure in metres.

★ List three things you would measure in grams.



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★ Plan now to measure everyone's hand span, foot length, arm length and length of thumb nail.

- ★ What could each person in the group do?
- ★ How could you collect the information?
- ★ How could you display the information?
- ★ Create 3 questions to ask the class about the information you collect.



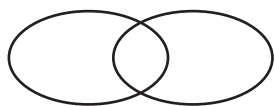


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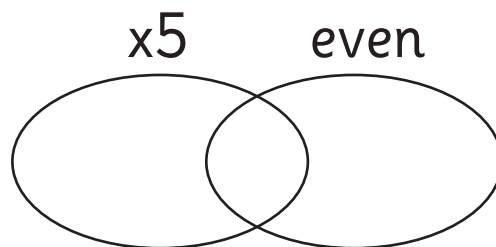
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★ Copy the Venn diagram.

★ Put these numbers into the Venn diagram: 45, 20, 16, 18, 21, 25, 30.

★ Where will the number 21 go? Why?



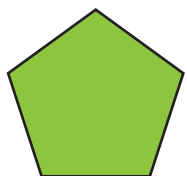
★ Create a Venn diagram for your partner to complete.



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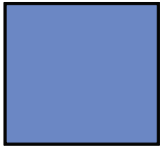
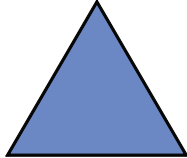
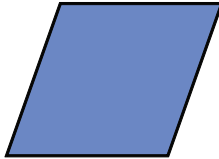
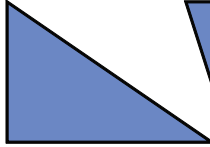
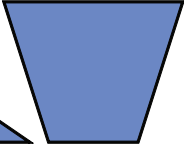


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Copy the Carroll diagram.

One of the shapes is in the wrong place. Can you find it?

all sides equal	all sides not equal
 	  



Add 4 more shapes into the correct columns.

