

## Worksheet

Answer the questions on this worksheet in the boxes next to the challenge questions.



### Remember:

The tasks are arranged in 3 challenges that get progressively more difficult.

- Challenge 1 is a “mild” challenge, if you are not confident
- Challenge 2 is “spicy”, a little bit more challenging, if you are feeling confident and find the first challenge too easy.
- Challenge 3 is “hot”. The questions are designed to challenge you and can be tricky.

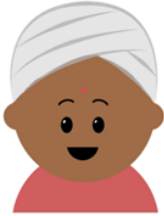
You can choose to do just one challenge or more than one, it is up to you. As a guide, if you are consistently getting everything correct, you should move up a challenge. If you are struggling on every question; move down a challenge.

### Challenge 1:

Question	Answer
<p>1.</p> <p>A regular shape has _____ sides and angles</p> <p>Which of these shapes is regular?</p> 	
<p>2.</p> <p>An irregular shape has _____ sides and angles</p> <p>Which of these shapes is irregular?</p> 	




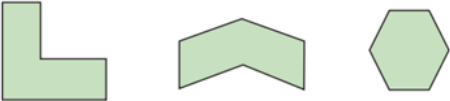
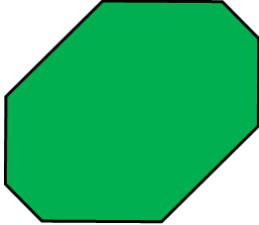
3.

Ranjit thinks his rectangle is a regular shape.









Do you agree with him? Explain your reasoning!

## Challenge 2:



Question	Answer
<p>1.</p> <p>One polygon in each set is regular. Tick the regular polygon.</p> <p>a) </p> <p>b) </p> <p>c) </p> <p>d) </p> <p>How did you know which one was regular without measuring?</p>	
<p>2. True or False?</p> <p>This is a regular octagon.</p>  <p>Explain your thinking.</p>	

3.

Has Toni sorted these shapes correctly? Explain your answer.

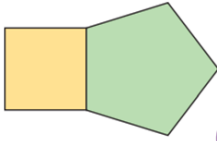
	Regular Polygon	Irregular Polygon
Has 5 sides		
Not 5 sides	  	

### Challenge 3:

Question	Answer
<p>1.</p> <p>Which shape is Ranjit describing? Is it regular or irregular?</p>  <p>It has eight sides. Two sides measure 4cm and six sides measure 5cm.</p>	
<p>2.</p> <p>The children are discussing this shape...</p>  <p>Alfie: A rhombus is a regular shape.</p> <p>Darcey: It can't be regular because the angles are unequal.</p> <p>Asha: It has the same properties as a square so it must be regular.</p> <p>Who do you agree with? Explain your reasoning!</p>	

3.

Eva has drawn a square and a regular pentagon.



The compound shape is regular because both of the shapes I drew were regular.



Do you agree with Eva? \_\_\_\_\_

Explain your answer.