



English

Now is your opportunity to put all your hard work to good use!

Your task for this home learning is to write you're a balanced argument answering the key question: 'Is it ever right to break the rules to effect a good outcome?'

You could have a look at last weeks example of a good balanced argument here to help you start: <https://www.bbc.co.uk/newsround/52917632>

- Think about your success criteria that you have created. You will need to think about:
- Cohesive phrases and vocabulary like front adverbials and a range of conjunctions.
 - Applying PEEL to all of your paragraphs so that you are explaining your points clearly and supporting with evidence.
 - Have represented both sides of the debate equally.
 - A clear opening that outlines what you are going to debate.
- A clear conclusion that summarises all of the points you have made.

Spelling: '-ture', '-sure' or '-er'?
 Have a look at the video on BBC Bitesize and complete the quiz!
<https://www.bbc.co.uk/bitesize/topics/zt62mnb/articles/z3jpk2p>

Task
 Identify correct and incorrect spellings. Choose a different colour to write the suffix



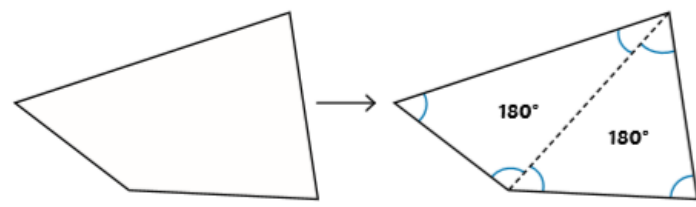
Reading: Have a go at the persuasive letter comprehension! * = mild, ** = medium and *** = spicy.

Theme

Maths

Today we are going to carry on looking at angles in shapes. Below are some investigations to work out the angles in different polygons using your understanding of angles in a triangle.

1) This quadrilateral has been partitioned into two triangles in order to calculate the total of the angles inside the shape.



The sum of the angles in a triangle is 180°.

Use this fact in order to complete the statements below.
A quadrilateral can be partitioned into 2 triangles.

$2 \times 180^\circ = \underline{\hspace{2cm}}$ interior angles of a quadrilateral = $\underline{\hspace{2cm}}$

2) Complete the partitioning of these regular polygons into different triangles by drawing a line or lines from a single vertex. Then, find the sum of the angles inside each shape.

a) A pentagon can be partitioned into $\underline{\hspace{1cm}}$ triangles.
 $\underline{\hspace{1cm}} \times 180^\circ = \underline{\hspace{1cm}}$
 interior angles of a pentagon = $\underline{\hspace{2cm}}$

b) A hexagon can be partitioned into $\underline{\hspace{1cm}}$ triangles.
 $\underline{\hspace{1cm}} \times 180^\circ = \underline{\hspace{1cm}}$
 interior angles of a hexagon = $\underline{\hspace{2cm}}$

c) A heptagon can be partitioned into $\underline{\hspace{1cm}}$ triangles.
 $\underline{\hspace{1cm}} \times 180^\circ = \underline{\hspace{1cm}}$
 interior angles of a heptagon = $\underline{\hspace{2cm}}$

d) An octagon can be partitioned into $\underline{\hspace{1cm}}$ triangles.
 $\underline{\hspace{1cm}} \times 180^\circ = \underline{\hspace{1cm}}$
 interior angles of an octagon = $\underline{\hspace{2cm}}$

3) A nonagon is the name of a 9-sided shape. Can you predict the sum of the interior angles of a nonagon?
 $\underline{\hspace{4cm}}$

PSHE – Transition to Secondary School

English

Maths

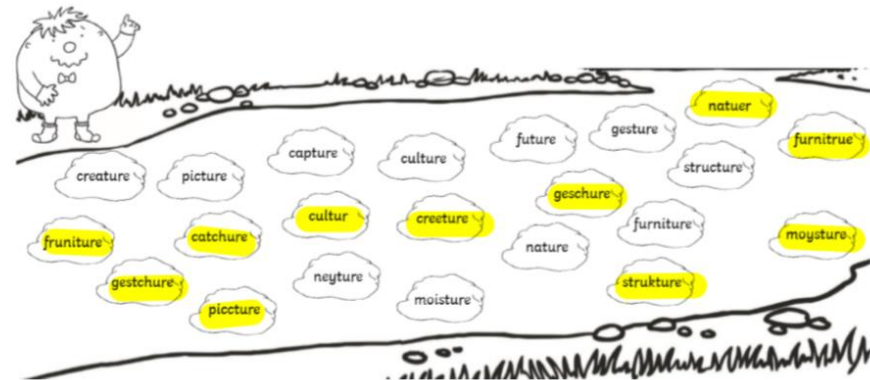
<https://www.maths4everyone.com/resources/sats-questions.html> - This website has a variety of SATS questions in different categories. Scroll down until you find the angles section for more angle-related questions.

https://nrich.maths.org/public/topic.php?group_id=39&code=77 – The nrich website provides lots of maths challenges. Choose an angle investigation to try.

<http://www.greatmathsteachingideas.com/shape-space-and-measure-resources/> - Angles in shape investigations

English:

Identify correct and incorrect spellings. Choose a different colour to write the suffix




incorrectly spelt words

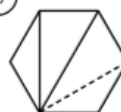
Maths - answers:


1) $2 \times 180^\circ = 360^\circ$
interior angles of a quadrilateral - 360°




2)

a)  A pentagon can be partitioned into 3 triangles.
 $3 \times 180^\circ = 540^\circ$
interior angles of a pentagon - 540°

b)  A hexagon can be partitioned into 4 triangles.
 $4 \times 180^\circ = 720^\circ$
interior angles of a hexagon - 720°

c)  A heptagon can be partitioned into 5 triangles.
 $5 \times 180^\circ = 900^\circ$
interior angles of an heptagon - 900°

d)  An octagon can be partitioned into 6 triangles.
 $6 \times 180^\circ = 1080^\circ$
interior angles of an octagon - 1080°

3) The sum of the interior angles in a nonagon is 1260° .