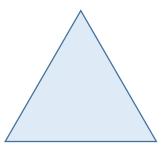
Summer Term Maths Year 10

Regular Polygons



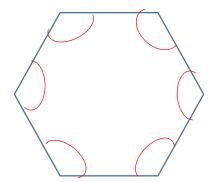
- 1
- (a) What is the minimum number of sides that a polygon has? Three
- (b) What is the special name given to a regular triangle? Equilateral



(c) What is the size of each of the angles in a regular triangle?

How did you know? 180 ÷ 3 = 60°

1 Here is a regular hexagon.



Mark on all of the interior angles of the shape.

Here is a regular pentagon.

How can you work out
the size of each interior
angle by first dividing the
shape into triangles? 3 multiplied
by 180 then divide by 5



Summer Term Maths Year 10

Regular Polygons

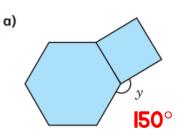


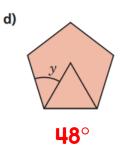
Complete the table to show the size of the interior angle of the regular shapes.

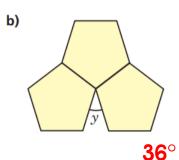
Number of sides	Sum of interior angles	Size of each interior angle
3	180	180 ÷ 3 = 60°
4	360	360 ÷ 4 = 90°
5	540	540 ÷ 5 = 108°
6	720 °	I20 °
8	1080°	I35°
q	I260 °	140°
10	1440°	 44°
12	1800°	I50 °

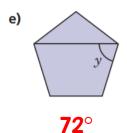
What patterns did you notice?

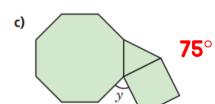
Each shape is made up of regular polygons. Find the labelled angles.

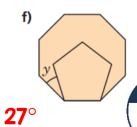












Røse