2D shapes and circles homework

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| **Literacy and spelling**  Make sure you know the meaning and spelling of the following words.  Pi, circumference, radius, radii, diameter, tangent, sector, segment, chord, quadrant, semi-circle | **Research**  When was pi discovered?  What values for pi have been used throughout history?  To how many decimal places has pi now been calculated?  What are concave polygons? What are convex polygons? Draw an example of each. | **Memory**  circumference of a circle  C = 2Πr = Πd  The interior angles of a triangle (3 sides) add up to 180o  The interior angles of a quadrilateral (4 sides) add up to 360o  The interior angles of an n-sided polygon add  up to (n-2)\*180o  The exterior angles of any polygon add up to 360o |
| **Skill Practice**   1. Find the circumference of the following circles in cm to 1 d.p. (circles not drawn to scale)   Figure 13cm   1. b) c)   9cm  23mm  3cm   1. What is the radius (in cm to 2 d.p.) of the circles with the following circumferences? 2. 314 cm b) 650 mm c) 50 cm d) 1 m e) 90 cm 3. Draw a circle in your book and label the following parts – diameter, radius, chord, segment, sector, tangent, circumference | | **Challenge** **and** **Stretch**   1. A skateboard wheel had a radius of 5cm. It makes 320 revolutions. How far has the skateboard travelled? Give your answer in m to 1 d.p.   How much effort did you put into your homework today?  Give yourself a mark out of 10.  / 10     1. Find the missing angles. |