

In your calculations use the value of pi to 6 places of decimals : $\pi = 3.141593$

1. Calculate the length of the arc subtended from the centre of each circle, given the angle of each arc and circle radius. (all measurements in cm, answers to 2 d.p.)

(a) 45° , 3

(b) 64° , 7

(c) 89° , 15

(d) 25° , 11

(e) 95° , 19

(f) 127° , 23

2. For each circle calculate the area of each sector, given the sector angle and circle radius. (all measurements in cm, answers to 2 d.p.)

(a) 36° , 9

(b) 135° , 12

(c) 241° , 21

(d) 345° , 14

(e) 141° , 22

(f) 45° , 37

3. Given sector angle and circle radius calculate the chord length for the each sector. (all measurements in cm, answers to 2 d.p.)

(a) 25° , 11

(b) 148° , 33

(c) 103° , 46

(d) 174° , 8

(e) 40° , 28

(f) 74° , 38

4. Given sector angle and circle radius calculate area of each minor segment. (all measurements in cm, answers to 2 d.p.)

(a) 57° , 17

(b) 125° , 55

(c) 142° , 16

1.

(a) 2.36

(b) 7.82

(c) 23.3

(d) 4.80

(e) 31.50

(f) 50.98

2.

(a) 25.45 cm²(b) 169.65 cm²(c) 927.51 cm²(d) 590.12 cm²(e) 595.57 cm²(f) 537.63 cm²

3.

(a) 4.76

(b) 63.44

(c) 72.00

(d) 15.98

(e) 19.15

(f) 45.74

4.

(a) 22.57 cm²(b) 2060.80 cm²(c) 238.43 cm²