Round all answers to an appropriate degree of accuracy unless specifically stated
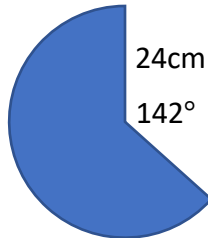
1. The net of a cone is in the shape of a sector as shown below

   24cm

   142°

    Calculate the area of the net.

2. Evaluate $p^{-\frac{2}{3}}$ when p = 8.

3. The number of people attending a festival this year was 78 600. This was a 12% increase on last year. Work out the attendance last year. Round your answer to the nearest 100.

4. A rare stamp collection is initially valued at £320. After some water damage, its value is decreased by 11%. After being repaired, its value increases 16% the following year then a further 18% the year after.

    a) Work out its final value after 3 years, to the nearest pound.

    b) Calculate the overall percentage increase during this time

5. a) Fully factorise $2a^2 - 32$

    b) Hence fully simplify

$$\frac{a^2 + 3a - 4}{2a^2 - 32}$$

6. Find the 5 figure summary of the data below

        13   16   18   19   23   27   33   36   42