Name:

QUIZ - MATH GRADE 10

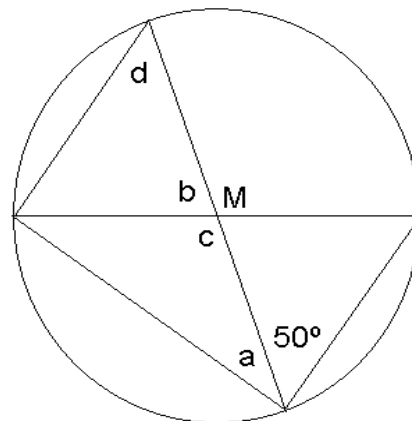1. (20%) Given the circle, find all the missing angles. M is the centre of the circle
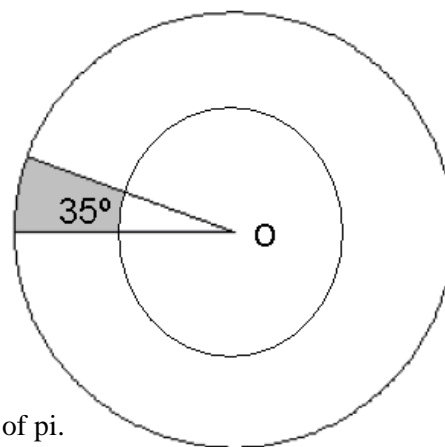
    (5%) a = _____

    (5%) b = _____

    (5%) c = _____

    (5%) d = _____

2. (30%) Given that the concentric circles have radii 6 and 10 cm as can be seen in the diagram. O is the centre of the circles.
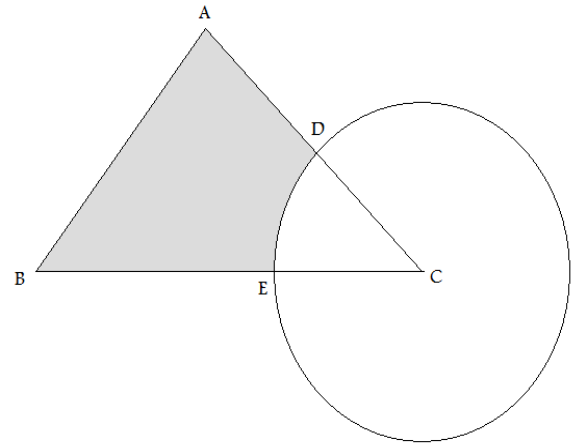
    a. (15%) Find the area shaded in terms of pi.

    b. (15%) Find the perimeter of the area shaded in terms of pi.

3. (50%) Given the following diagram. The triangle BAC is <u>equilateral</u>.
   BC = 20 cm. The radius of the circle is 8 cm. C is the centre of the circle. Find
   (give exact answers):

   a. (8%) The length of the **major** arc DE.

   b. (12%) The <u>perimeter</u> of the sector DEC.

   c. (10%) The <u>area</u> of the sector DEC.

   d. (10%) Find the area shaded.

   e. (10%) The perimeter of the shaded area.