(Units 1 – 3)

Part 1: **Darken the circle in front of the correct answer.**
(1 mark each)
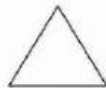
1) Which statement is true?

   (a) Simple polygons only have one boundary.
   (b) Concave polygons have at least one angle that is greater than 190°.
   (c) Polygons are three-dimensional shapes.
   (d) Polygons are composed of 2 straight lines.

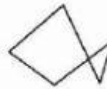2) Which is a complex polygon?

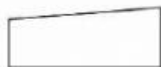   (a)
   (b)
   (c)
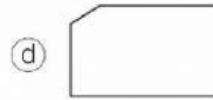   (d)

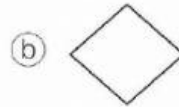3) Which is a concave polygon?

   (a)
   (b)
   (c)
   (d)

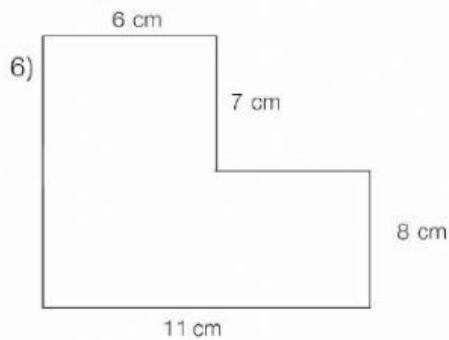Circles **81**

4) Which is not a polygon?

(a)

(b)

(c)

(d)

5) What is the sum of interior angles of a regular pentagon?

(a) 108°   (b) 540°
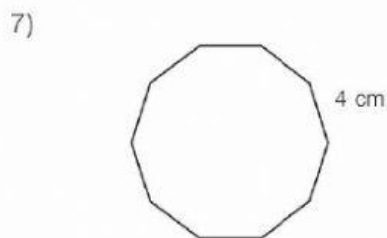
(c) 250°   (d) 135°

6)

What is the perimeter of this figure?

(a) 42 cm long
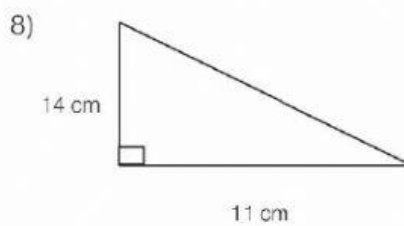(b) 35 cm long
(c) 64 cm long
(d) 52 cm long

7)

What is the perimeter of this figure?

(a) 75 cm long
(b) 60 cm long
(c) 40 cm long
(d) 20 cm long

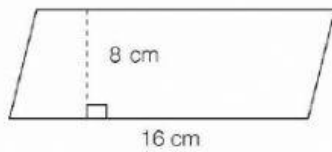8)

What is the area of this figure?

(a) 77   square centimetres
(b) 105   square centimetres
(c) 52   square centimetres
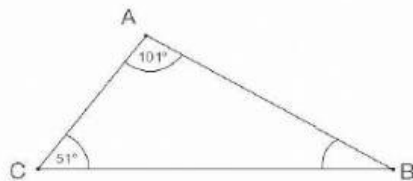(d) 97   square centimetres

9)

8 cm

16 cm

What is the area of this figure?

(a) 128 square centimetres

(b) 120 square centimetres

(c) 64 square centimetres

(d) 32 square centimetres

10)
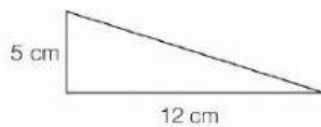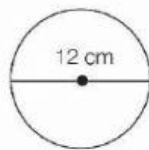

A
101°
C 51°
B

What is the degree of $C\hat{B}A$?

(a) 75°

(b) 28°

(c) 23°

(d) 87°

Part 2: Answer each question. (1 mark each)
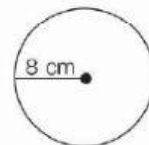

5 cm

12 cm
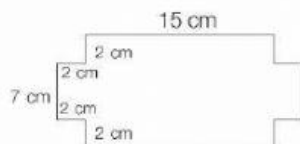
1) What is the area of this figure?

_____

12 cm

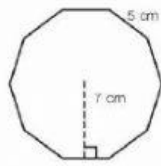2) What is the perimeter of this figure? (Use $\pi \approx 3.14$.)

_____

8 cm

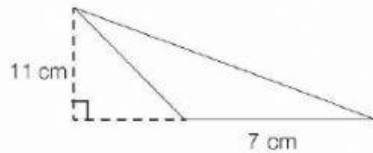3) What is the perimeter of this figure? (Use $\pi \approx 3.14$.)

_____

15 cm

2 cm
2 cm
7 cm 2 cm
2 cm

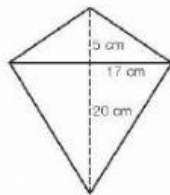4) What is the area of this figure?

_____

5) What is the area of this figure?

_____

6) What is the area of this figure?

_____

7) What is the area of this figure?

_____

8) A rectangular car park has a length of 34 metres and a width of 45 metres. If an electricity post has to be installed on every 2 metres of each side of the car park, how many electricity posts are there?

_____

9) William has to paint his bedroom wall. His bedroom wall is 6 metres wide and 4 metres tall. The wall has a window which is 2 metres wide and 1.5 metres tall. What is the total area that William has to paint?

_____

10) A circular piece of wood has a radius of 6.5 metres. Jack wants to paint the top part of it. What is the total area that he has to paint? (Use $\pi \approx \frac{22}{7}$.)

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