Area and Perimeter
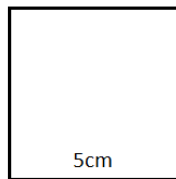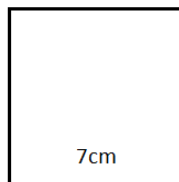
1. What is the area of the following squares?
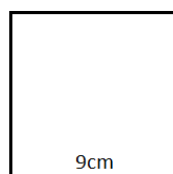
   (a) .
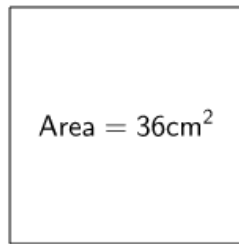
   5cm

   (b) .

   7cm

   (c) .

   9cm

2. What is the length of the side of the following squares?

  (a) .

$$\text{Area} = 36\text{cm}^2$$

  (b) .

$$\text{Area} = 100\text{cm}^2$$

  (c) .

$$\text{Area} = 169\text{cm}^2$$
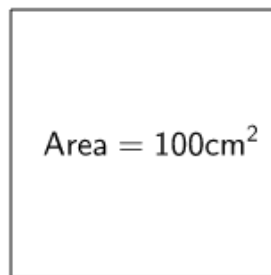
3. The perimeter of a square is 40cm, what is the length of a side? What is the area of the square?

4. The perimeter of a square is 20cm, what is the area of the square?

5. The area of a square is $49cm^2$, what is the perimeter?

6. The area of a square is $81cm^2$, what is the perimeter?

7. What is the Area and Perimeter of the following rectangles?

   (a) .

                                        4cm

                       9cm
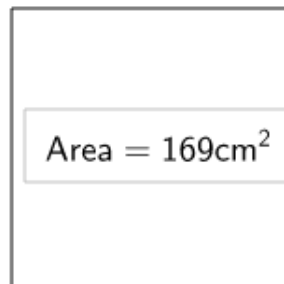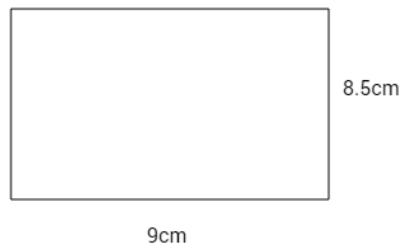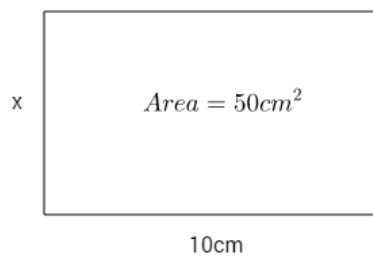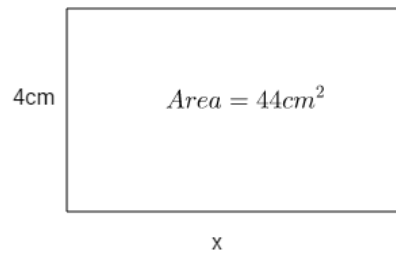
   (b) .

                                        7cm

                      13cm

   (c) .

                                        8.5cm

                      9cm
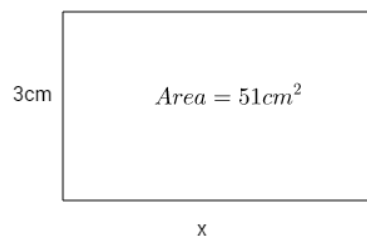
8. Find the side length x of the following rectangles?

   (a) .

        x $Area = 50cm^2$

                      10cm

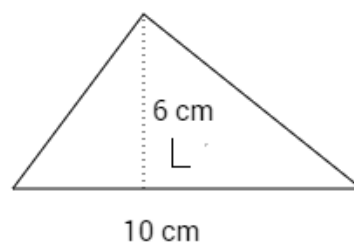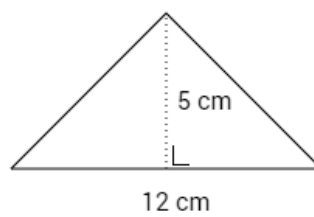(b) .

$Area = 44cm^2$

4cm

x

(c) .

$Area = 51cm^2$

3cm

x

9. What is the perimeter of each rectangle above?

10. What is the area of the following triangles?

(a) .

6 cm

10 cm

(b) .

5 cm

12 cm
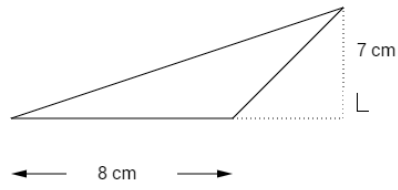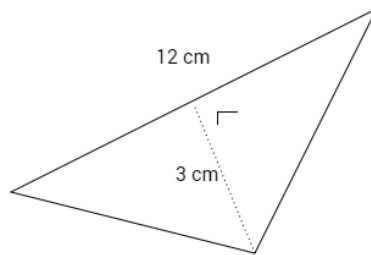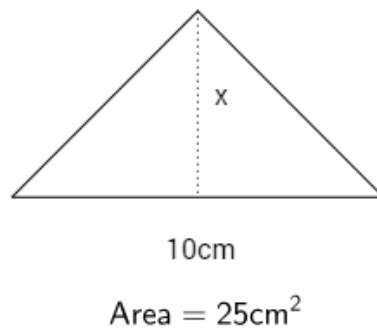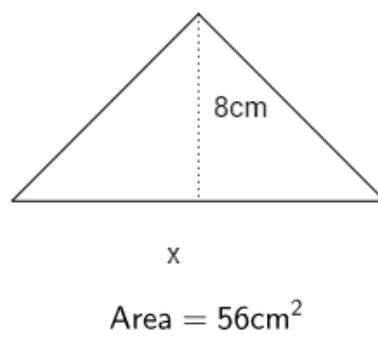
(c) .

(d) .

11. Find the side length marked x in the following triangles?

(a) .

10cm

Area $= 25$cm^2

(b) .

8cm

x

Area $= 56$cm^2

(c) .

4 cm

X

$Area = 32cm^2$
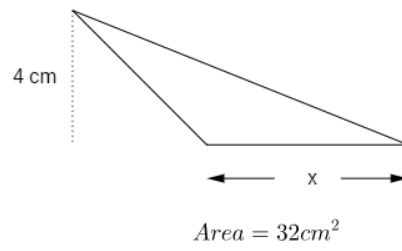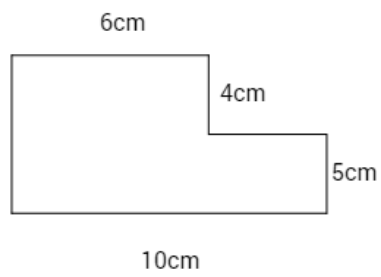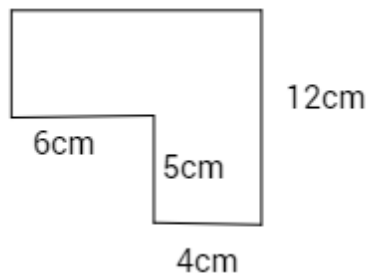
12. Find the Area of the following shapes?

(a) .

6cm

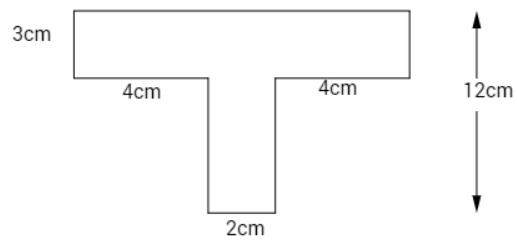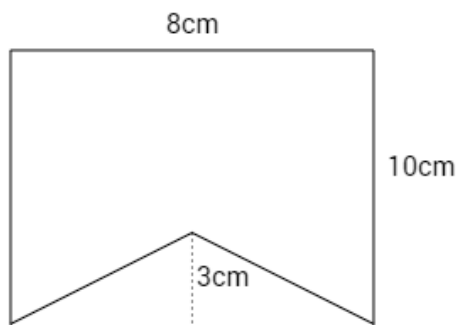4cm

5cm

10cm

(b) .

12cm

6cm

5cm

4cm

(c) .

4cm

8cm

10cm

(d) .

3cm
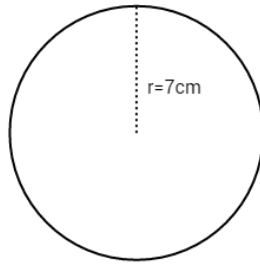
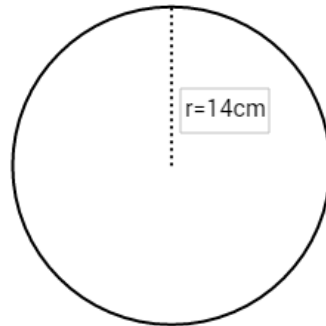4cm   4cm   12cm

2cm

(e) .

8cm

10cm

3cm
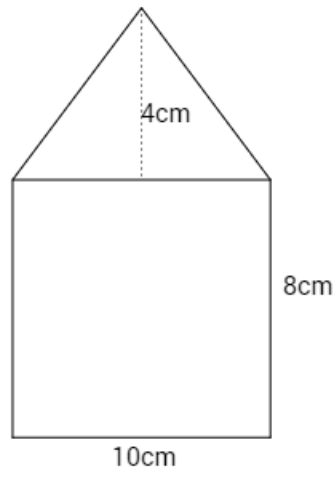
13. Find the Area and Circumference of the following circles? Use 22/7 for π

   (a) .

   r=7cm

   (b) .

   r=14cm
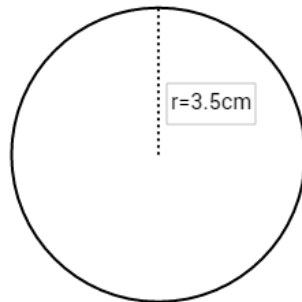
   (c) .

   r=3.5cm
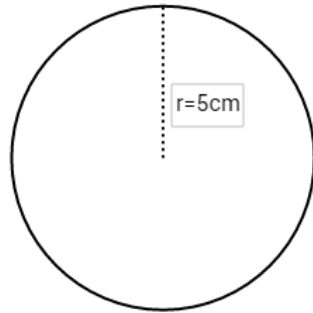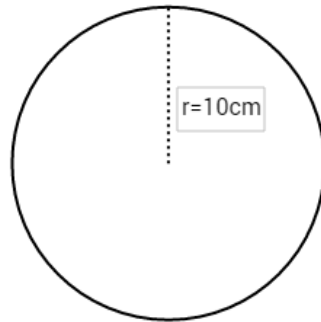
14. Find the Area and Circumference of the following circles? (Use 3.14 for π).
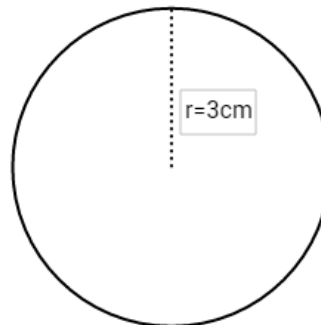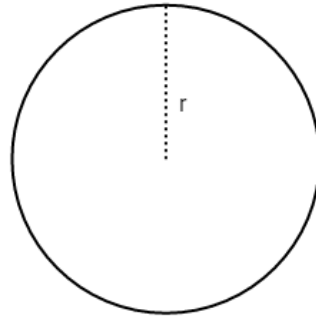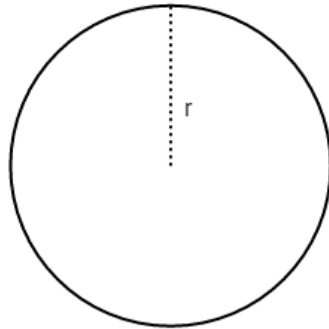
(a) .

r=5cm

(b) .

r=10cm

(c) .

r=3cm

15. Find the radius of the following circles to the nearest cm? (Use the π button on your calculator).
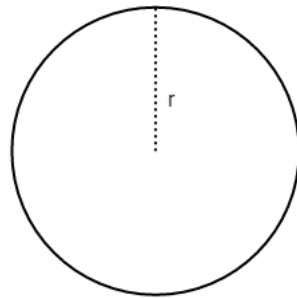
(a) .

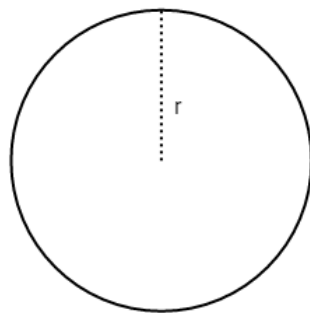$$Area = 78.54cm^2$$

(b) .

$$Area = 153.94cm^2$$

(c) .
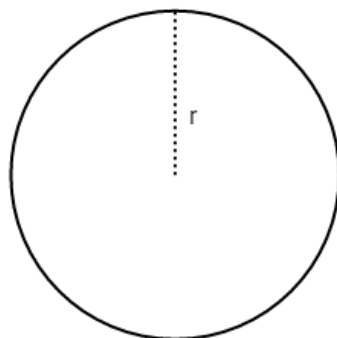
$$Area = 314.16cm^2$$

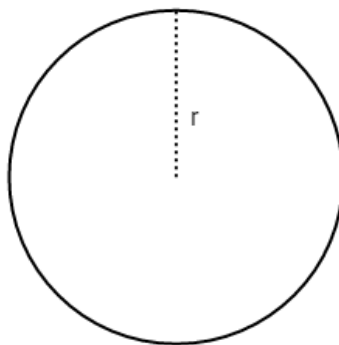16. What is the Circumference of the following circles, to one decimal place?

(a) .

$$Area = 28.27cm^2$$

(b) .

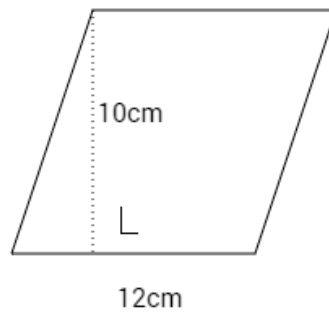$$Area = 50.27cm^2$$

(c) .

$$Area = 201cm^2$$

17. What is the Area of a circle with a circumference of:
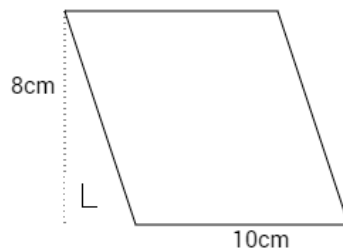
    i. 42cm

    ii. 28cm

    iii. 35cm

Find answers correct to one decimal place.

18. What is the Area of the following parallelograms?

(a) .

10cm

12cm

(b) .

8cm

10cm

(c) .

8cm

8cm

10cm