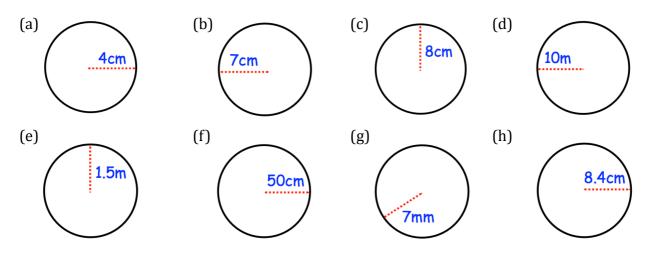
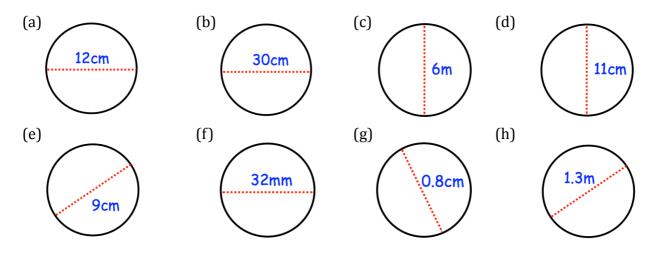


Question 1: Calculate the area of the following circles. Give your answers to 1 decimal place.



Question 2: Calculate the area of the following circles. Give your answers to 1 decimal place.

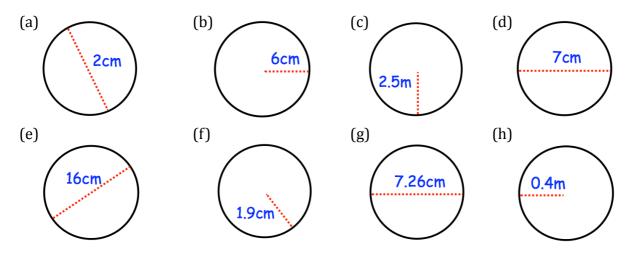


Question 3: Work out the area of the following circles. Give your answers to 1 decimal place.

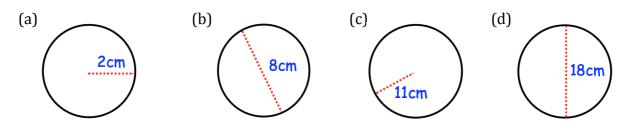
- (a) A circle with radius 9cm
- (c) A circle with diameter 40cm
- (e) A circle with diameter 5 yards
- (b) A circle with radius 12m
- (d) A circle with diameter 1km
- (f) A circle with radius 10.5m



Question 4: Calculate the area of the following circles. Give your answers to 1 decimal place.



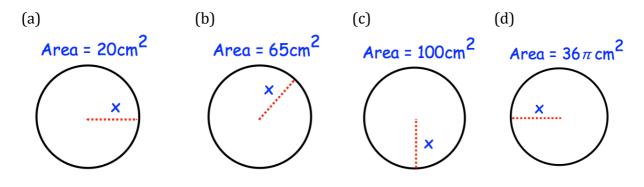
Question 5: Calculate the area of the following circles. Leave your answer in terms of  $\pi$ 



Question 6: Work out the area of the following circles. Leave your answer in terms of  $\pi$ 

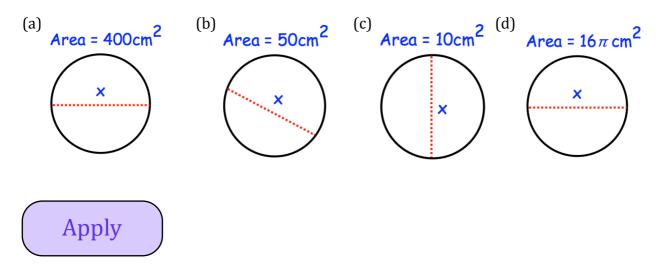
- (a) A circle with radius 7cm
- (b) A circle with radius 1cm
- (c) A circle with diameter 10cm
- (d) A circle with radius 3cm
- (e) A circle with diameter 4cm

Question 7: Find the size of the radius for each of the following circles. Give your answer to 2 decimal places.

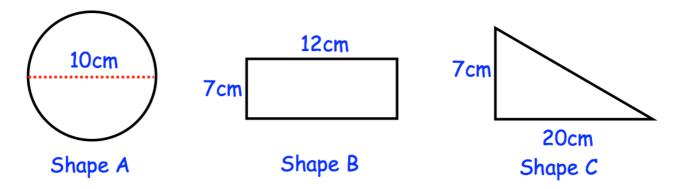




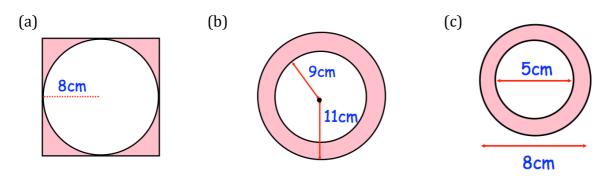
Question 8: Find the size of the diameter for each of the following circles. Give your answer to 2 decimal places.



- Question 1: A circular table top has a diameter of 90cm. Work out the area of the table top.
- Question 2: A circular badge has radius 3cm. Calculate the area of the badge.
- Question 3: Shown below is a circle, a rectangle and a right angled triangle. Which shape has the greatest area?

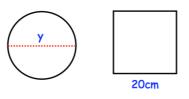


Question 4: Calculate the shaded area for each shape below.



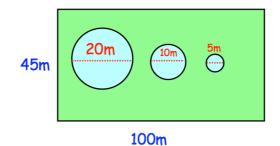


Question 5: The circle and square have the same area. Find y, the diameter of the circle.



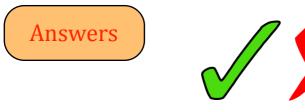
- Question 6: The circumference of a circle is 60cm. Work out the area of the circle.
- Question 7: The circumference of a circle is 1m. Work out the area of the circle.
- Question 8: The area of a circle is 80cm<sup>2</sup>. Work out the circumference of the circle.
- Question 9: The area of a circle is  $2m^2$ . Work out the circumference of the circle.
- Question 10: A rectangular lawn is 100m long and 45m wide. There are 3 circular ponds, with diameters of 20m, 10m and 5m respectively. Mrs Jones wants to cover the lawn with grass seed. Each packet of grass seed covers 50m<sup>2</sup> and costs £1.49

How much will it cost Mrs Jones to cover the lawn with grass seed?



Question 11: A circular plaque of diameter 6cm is cut from a square piece of metal with side length 6cm.

What percentage of the metal is wasted?



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