

LO – Calculate the area of a circle and apply the correct units.

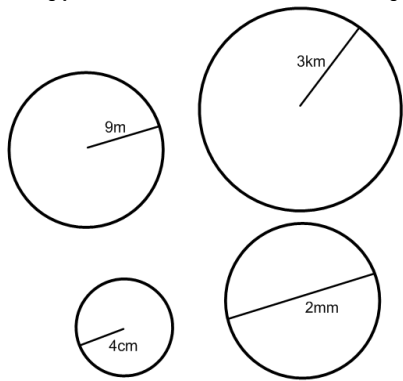
The area of a circle is given by the following formula: $Area = \pi r^2$
 π is just a number (3.142....) To find the area, square the radius of the circle and multiply it by π . Answers will always be cm², mm², km², m² or some form of square units.

Starter questions

5 ² =	3 x 4 ² =	9 ² =
3 x 10 ² =	1 ² =	2.5 ² =

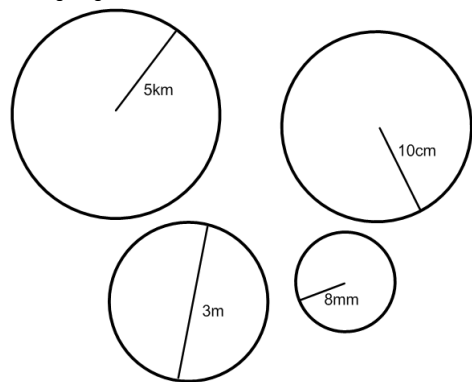
Non calculator section

Taking $\pi = 3$, find the area of the circles below giving the correct units

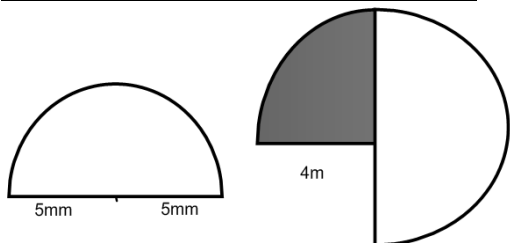


Calculator section (round all answers to one decimal place)

Using the π button on your calculator or 3.142, find the area of the circles below giving the correct units.



Free section (round all answers to one decimal place)



- (1) A circle has a radius of 6.5cm, find its area
- (2) A circle has a diameter of 10m find its area
- (3) A circle has a radius on 9.23mm, find its area
- (4) A semi circle has a radius of 6km, find its area
- (5) What is the area of the top of a 12" pizza?

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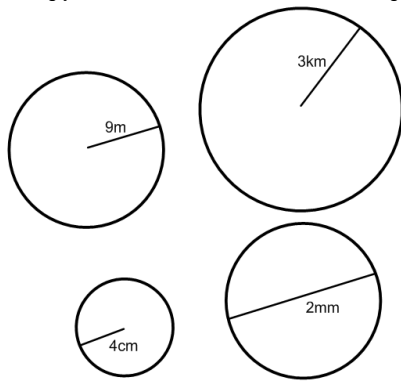
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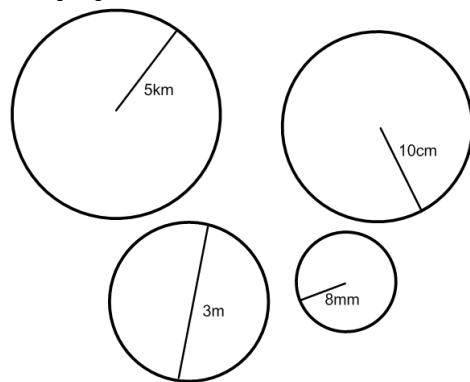
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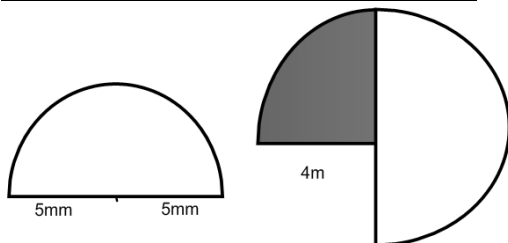


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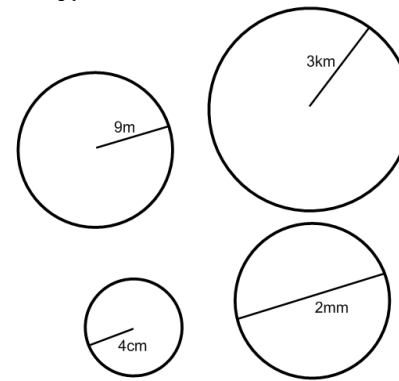
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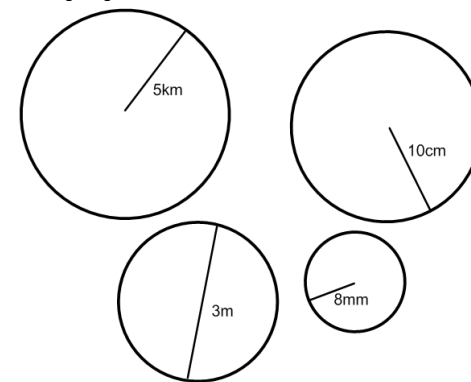
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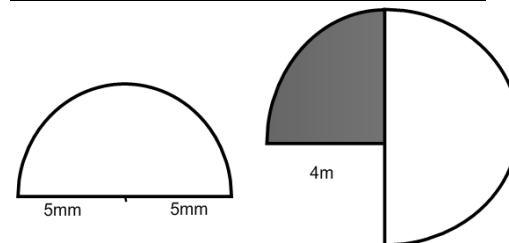


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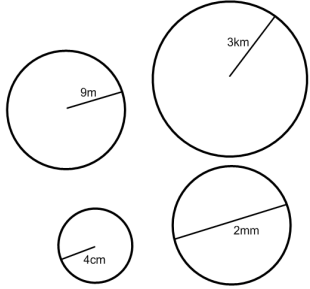
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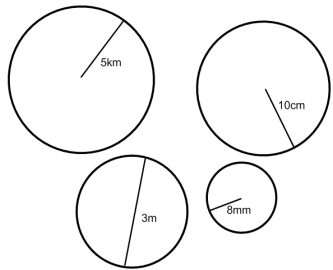
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Answers

$5^2 = 25$	$3 \times 4^2 = 48$	$9^2 = 81$
$3 \times 10^2 = 300$	$1^2 = 1$	$2.5^2 = 6.25$

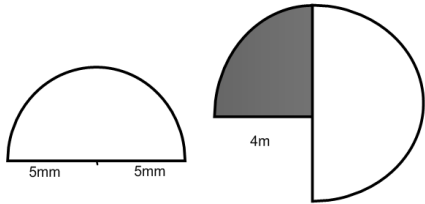


- 243m²
- 27km²
- 48cm²
- 3mm²



- 78.5km²
- 314.2cm²
- 7.1m²
- 201.1mm²

free section



- 39.3mm²
- dark part = 12.6m²
- light part 25.1m²

final questions

- (1) 132.7cm²
- (2) 78.5m²
- (3) 267.6mm²
- (4) 56.5km²
- (5) 56.5" ²