

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

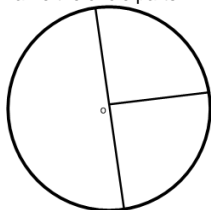
The circumference of a circle is given by the following formula:

$Circumference = 2\pi \text{ or } \pi d$

π is just a number (3.142....) To find the circumference either multiply the radius by 2 and then multiply by π **or** find the diameter and multiply it by π . Remember the radius is simply half the diameter. Your answer will always be a length so cm, m, mm, km, units etc will be required and **NOT** cm², mm² etc

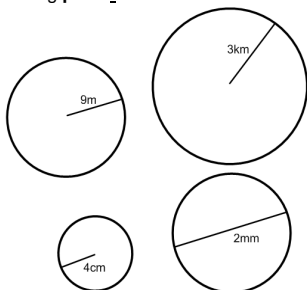
Starter question

Name the circle parts



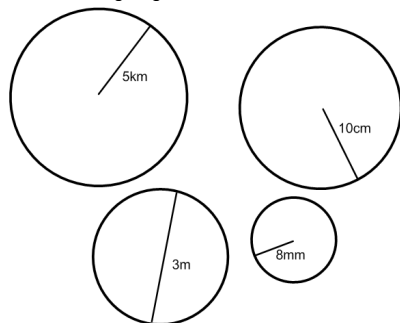
Non calculator section

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

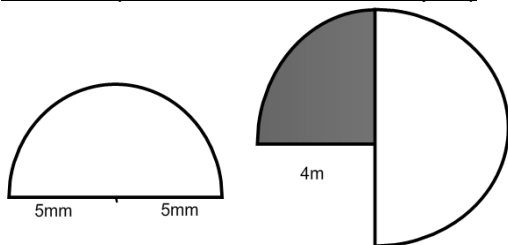


Calculator section (round all answers to one decimal place)

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



Free section (round all answers to one decimal place)



- (1) A circle has a radius of 2.4cm, find its circumference
- (2) A circle has a diameter of 15m find its circumference
- (3) A circle has a radius on 8.77mm, find its circumference
- (4) A semi circle has a radius of 8km, find its circumference
- (5) What is the circumference of the top of a 6" pie?

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

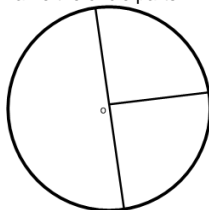
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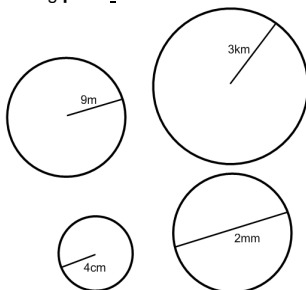
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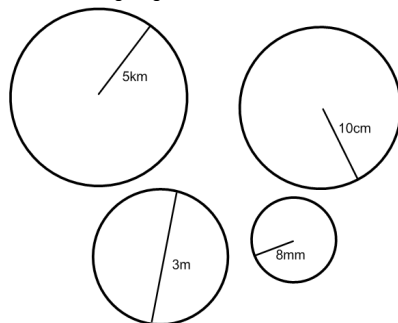
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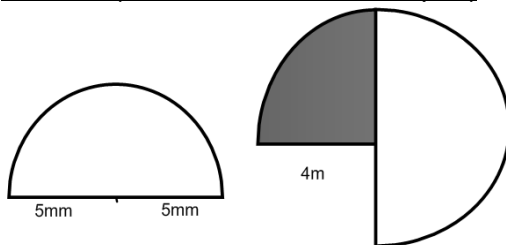


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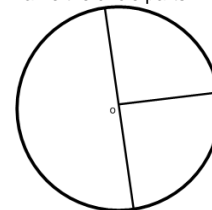
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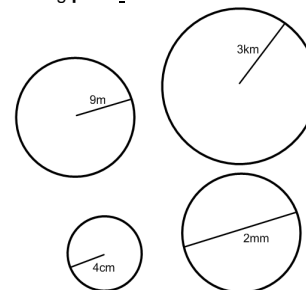
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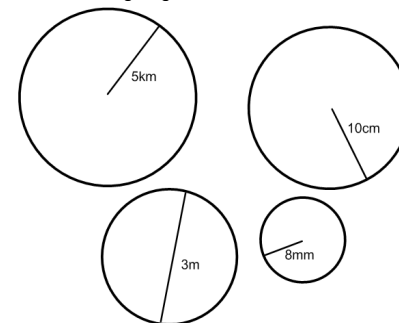
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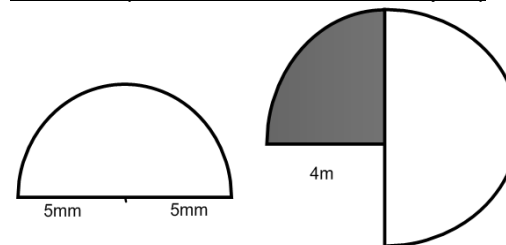


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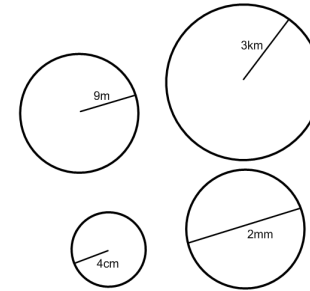
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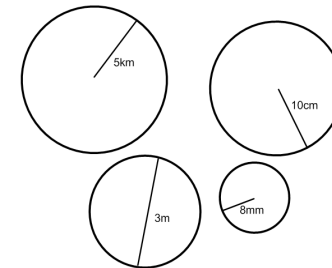
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Answers

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

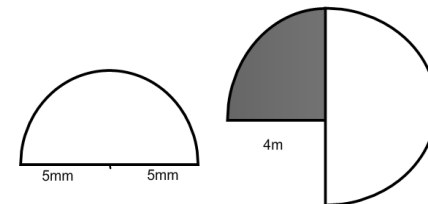


243m²
 27km²
 48cm²
 3mm²



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