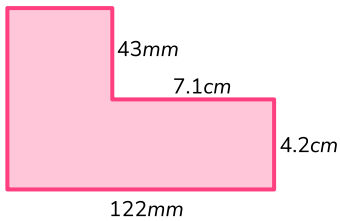


Area and perimeter

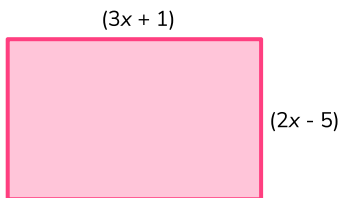
For the given shape, find:

- a) Its perimeter = 414mm or 41.4cm
b) Its area = 7317mm^2 or 73.17cm^2

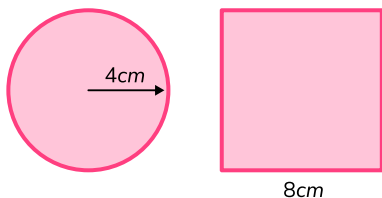


Given the rectangle below, give an expression for:

- a) The perimeter in the form $mx + n$
= $10x - 8$
b) The area in the form $ax^2 + bx + c$
= $6x^2 - 13x - 5$



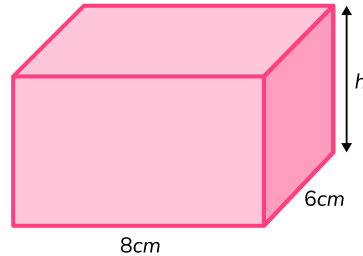
Giving your answer to one decimal place, find the difference in the area of a circle of radius 4cm and the area of a square of side length 8cm .



= 13.7cm^2

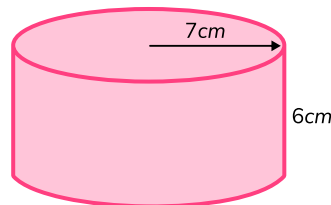
Volume and surface area

Given that this cuboid has a volume of 336cm^3 , find the value of h . = 7cm

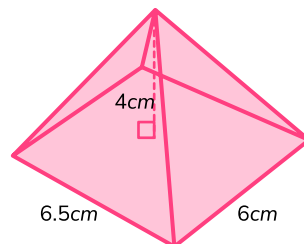


For the given cylinder, find:

- a) The volume = 923.6cm^3
b) The surface area = 571.8cm^2



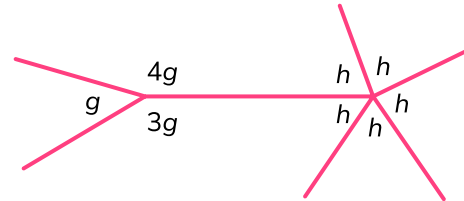
Use the formula $V = \frac{1}{3}bh$ where b is the base area and h is the perpendicular height from base to apex, to calculate the volume of this pyramid.



= 52cm^3

Angles at a point

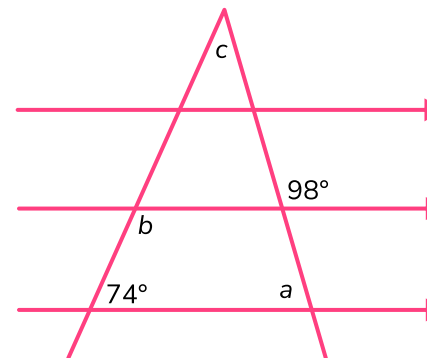
Using the diagram shown, evaluate $h - g$.
= 27°



Angles in parallel lines

Determine the size of each labelled angle:

- a : 82°
b : 106°
c : 24°



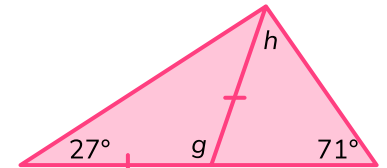
Interior and exterior angles

Find the difference between the interior angle and exterior angle of an icosahedron.

= 144°

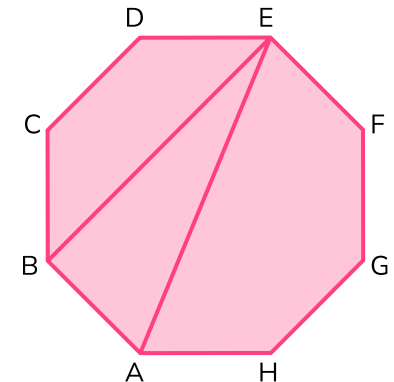
Angles in triangles

Find the size of angle g . = 126°
Find the size of angle h . = 55°



Angles in polygons

ABCDEFGH is a regular octagon. Determine the size of angle \widehat{BEA} .
= 22.5°



Polygon properties

A particular regular n -gon has an exterior angle x satisfying $50^\circ < x < 60^\circ$. State the name of this n -gon and find the size of one interior angle accurate to two decimal places.

= 7-gon, heptagon, interior angle 128.57°