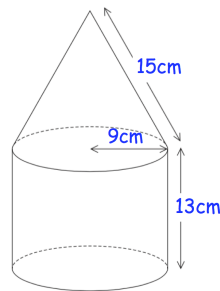


23rd July

Corbettmaths

A cylinder and a cone are joined together to make a solid.
 The cylinder has a radius of 9cm and height of 13cm.
 The cone has a slant height of 15cm.
 Find the total surface area of the solid.



2	2	3	4	5	6	6	7	9
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Rebecca has 9 cards, each with a number on it. She picks two cards at random, without replacement.

Calculate the probability that the number on both cards are the same.

Express $3x^2 + 24x - 1$ in the form $a(x + b)^2 + c$

A circle has equation

$$x^2 + y^2 = \frac{1}{9}$$

Write down the length of its diameter

A clock has two hands.
 A minute hand which is 7cm long
 and an hour hand which is 5cm long.

Find the distance between the tips of the two hands at 7:20am