5th July

Higher 5-a-day

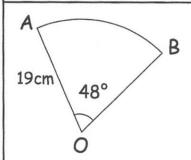
Corbettmaths

What is the probability of rolling a six, three times in a row on an ordinary dice?

$$\frac{1}{6} \times \frac{1}{6} \times \frac{1}{6} = \frac{1}{216}$$

Ella has a 4 digit padlock. Each dial can be set to 0, 1, 2, 3, 4, 5

Work out the total number of different combinations that have four different digits.



Find the area of the sector OAB.

151.2 cm2

Plank A Volume = 750cm³ Mass = 900g 1.29/cm3

Plank B 15200 cm Volume = 0.0152m³ Mass = 7.6kg

Volume = 1000cm³ Mass = 1.02kg 10209

Plank C

1.02g/cm3

Mr.Dixon is building a toy boat for his son. He has three different planks of wood to choose from.

If wood has a density under 1g/cm3, it will float.

Which plank of wood is the most suitable?

Explain your answer.

(A) 900=750= 1.29/cm³ (B) 7600=15200=0.59/cm³ (C) 1020=1000=1.029/cm³

8 has a density under 1g/cm3