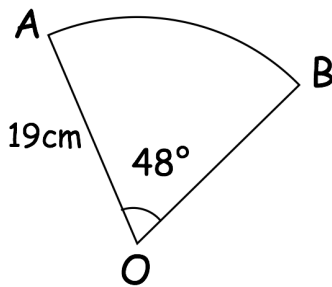




What is the probability of rolling a six, three times in a row on an ordinary dice?

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.

Plank A

Volume = 750cm^3
Mass = 900g

Plank B

Volume = 0.0152m^3
Mass = 7.6kg

Plank C

Volume = 1000cm^3
Mass = 1.02kg

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/cm^3 , it will float.

Which plank of wood is the most suitable?

Explain your answer.