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# FSMQ

# SHAPE AND SPACE

## Level 2

June 2016

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## Preliminary Material

### Data Sheet

To be opened and issued to candidates between  
Friday 29 April 2016 and Friday 13 May 2016

#### REMINDER TO CANDIDATES

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**Mobile phone masts**

A mobile phone mast can have a range of up to 70 km in flat terrain.  
In hilly areas, the range can be much less than this.

You can assume that if a mast has a range of 50 km there will be a phone signal at every point inside a circle of radius 50 km with the mast at its centre.

**Cake tins**

Monica is a pastry chef.  
She makes a wide range of cakes using cake tins of different shapes and sizes.

**Turn over**

**Turn over ►**

## Football pitches

Neil is a groundsman at a football club.  
 There are several football pitches at the club's training ground.  
 Neil has to keep the pitches in good condition.  
 Neil sometimes has to mark out a new football pitch.  
 He uses a line marker, as shown in the picture.



The laws of football state that the length of a pitch can be anything from 90 to 120 metres, and the width of a pitch can be anything from 45 to 90 metres.  
 The pitch must be rectangular but not square.  
 Sometimes the dimensions of pitches are given in yards.  
 The table below shows the dimensions of some football pitches in yards.  
 1 yard = 91.44 cm

Manchester City, City of Manchester Stadium	116 × 77 yards
Manchester United, Old Trafford	116 × 76 yards
Arsenal, Emirates Stadium	114 × 74 yards
Chelsea, Stamford Bridge	110 × 75 yards
Liverpool, Anfield	110 × 75 yards
Tottenham Hotspur, White Hart Lane	110 × 73 yards

## END OF DATA SHEET

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