

# Paint Those Lines

## Activity 1

The ground staff mix one part paint with four parts of water and use this mixture to paint the lines.

1. What is the total length of the lines required for the game of football at the MCG? Record your answer in Table 1.
2. If 1 litre of the paint and water mixture draws a uniform width line of 35m in length, how much of this mixture is required to paint each of the lines listed in Table 1?
3. How much of the mixture is required to paint all the lines required for the game?
4. If it takes one ground staff member 10 minutes to paint a line 50m long, how long will it take this person to do all the lines?
5. A 20 litre tin of paint costs \$107.60. How much does it cost to paint all the lines for a game at the MCG?

Line	Distance	Paint required
Boundary line	470m	
Centre square – 4 lines	45m each line	
50m arc x 2	115m	
Goal square width x 2	7m	
Goal length width x 2	10m	
centre circle	3m	
<b>Total length of lines</b>		

Table 1

## FACT FILE

Every time a game of football is played at the MCG, the ground staff must prepare the surface and paint all the white lines including the boundary line, the centre square and the 50m arcs. The exact measurements of the lines required are listed in Table 1.

## Activity 2 - Painting the lines at school

- Now use a trundle wheel or measuring tape to measure all the lines painted on the court surfaces at your school. Create a table to record the measurements of the lines.
- How much paint will you need to buy if you want to paint over all the lines?
- How much will the paint cost?
- How long will it take you to paint all the lines by yourself if you work at the same pace as the MCG staff?

