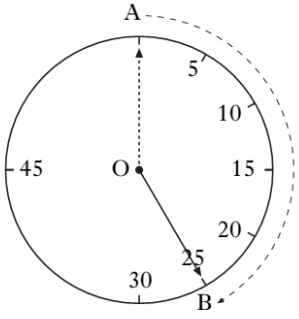
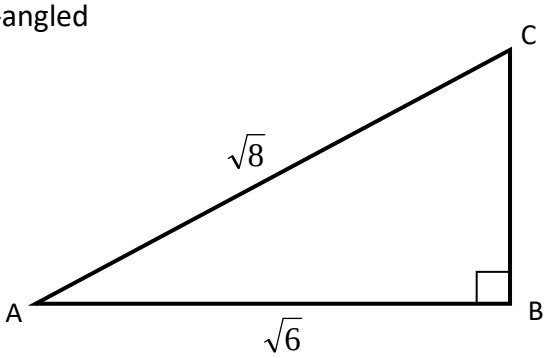
	Practice Paper 3	**30**
1	Evaluate $2\frac{1}{8} + \frac{3}{5}$	**2**
2	Jamie buys an antique table for £840. If it's value is expected to rise by 4.2% each year. What will the table be worth in 5 years	**3**
3	Expand $m(\sqrt{m} + m^2)$	**3**
4.	Contestants have 25 seconds to answer a question. The time is indicated on the clock. The tip of the clock hand moves through arc AB as shown below  (a) Calculate the size of angle AOB (b) The length of arc AB is 140 centimetres. Calculate the length of the clock hand	**1** **4**
5.	72 000 tickets were sold for a music festival last year. This represents 80% of the available tickets. Calculate the total number of tickets that could have been sold for the festival	**3**

6.	A straight line has an equation in the form $4x + 3y = 12$ (a) Find the gradient of the line (b) Find the coordinates of the point where the line crosses the x-axis (c) Find the coordinates of the point where the line crosses the y-axis	**2** **2** **1**
7.	Solve, **algebraically**, the system of equations $8x + 3y = 0$, $3x + y = 1$	**3**
8.	Consider the right-angled triangle shown.  (a) Calculate the **exact** length of BC, leaving your answer as a surd. (b) Show clearly that the exact value of the area of triangle ABC is $\sqrt{3}$ square units.	**3** **3**