

## Exact Values of Trigonometric Ratios and Special Triangles

1. An equilateral triangle has a height of  $3\sqrt{3}$  cm. What is its perimeter? (18 cm)
2. A clock face is in the form of a coordinate system with the origin at the centre of the face. The minute hand passes through the point  $(1, \sqrt{3})$ . The hour hand is somewhere between the 4 and the 5. What is the time? (4:05)
3. The parallel sides of a trapezoid have lengths of 7 cm and 15 cm. The two lower base angles are  $30^\circ$  and  $60^\circ$ . Determine the area of the trapezoid. ( $22\sqrt{3}$ )