



## Section A

Calculation	Full calculator display	Answer to 2 decimal places
$(18.133 + 34.6) - (5.2 - 8.9)$		
$10.02 \times 4.9 + 7.2^2$		
$34.88 \times 2.13 - 15.64$		
$(4.7 + 2.1) \div 0.22$		
$19 + \sqrt{165}$		
$(14.03 - 3.4)^2$		
$\sqrt{1.3^2 + 7.22}$		

## Section B

- 1) The formula for the area of a circle is  $\pi r^2$ . Use your calculator to work out the area of a circle with a radius of 9.5 cm. Give your answer to an appropriate degree of accuracy.
- 2) What is  $\frac{1}{3}$  of  $\frac{2}{5}$  of  $\frac{4}{17}$ ? Give your answer as a fraction.
- 3) The mean can be calculated by adding up all the numbers in the data set and then dividing by the amount of numbers in the data set. Find the mean of the following numbers: **1.8, 0.94, 2.11, 2.97, 1.43**
- 4) Which numbers are equivalent out of the following:  $\frac{4}{25}$  0.24 16%.
- 5) Find the cube of  $4 \times \pi$ . Round your answer to five decimal places
- 6) The golden ratio appears frequently in both math and in nature. The golden ratio is  $\frac{\sqrt{5} + 1}{2}$ . Find the golden ratio as a decimal to 5 decimal places.
- 7) Calculate the total area of 10 triangles with a base length of 97.01 centimeters and height 2.58 meters.