



Mental Computation

Year 10 Mathematics

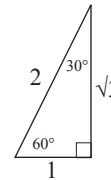
End Term 4

Mental computation (End Term 4)

- 1 Spell Scatterplot
- 2 Name two properties of an isosceles triangle
- 3 Name two properties of a square
- 4 If the angle sum of a polygon $= (n-2) \times 180^\circ$, what is the angle sum of a quadrilateral?
- 5 What is the gradient of the line $y = x + 3$?
- 6 What is the gradient of the line perpendicular to $y = 2x - 1$?
- 7 What angle does the line $y = x + 2$ make with the x-axis?
- 8 In the triangle, what is $\cos 60^\circ$?
- 9 Factorise: $x^2 + 4x + 3$
- 10 Two sides of a right-angled triangle are 1 and 2, what is the hypotenuse?

$$\begin{aligned} &(n-2) \times 180 \\ &= (4-2) \times 180 \\ &= 360 \\ &\text{Angle sum of a quadrilateral is } 360^\circ \end{aligned}$$

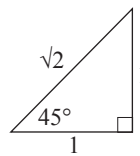
$$\begin{aligned} &x^2 + 4x + 3 \\ &= (x+3)(x+1) \end{aligned}$$



Sample 1

Mental computation (End Term 4)

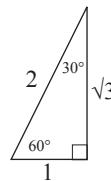
- 1 Spell Hypotenuse
- 2 Name two properties of an equilateral triangle
- 3 Name two properties of a rectangle
- 4 If the angle sum of a polygon $= (n-2) \times 180^\circ$, what is the angle sum of a hexagon?
- 5 What is the gradient of the line $y = 3x + 2$?
- 6 What is the gradient of the line parallel to $y = 3x - 1$?
- 7 What angle does the line $y = -x + 2$ make with the x-axis?
- 8 In the triangle, what is $\sin 45^\circ$?
- 9 Factorise: $x^2 + 5x + 6$
- 10 Two sides of a right-angled triangle are 1 and 3, what is the hypotenuse?



Sample 2

Mental computation (End Term 4)

- 1 Spell Non-linear
- 2 Name two properties of a rhombus
- 3 Name two properties of a parallelogram
- 4 If the angle sum of a polygon $= (n-2) \times 180^\circ$, what is the angle sum of a heptagon?
- 5 What is the gradient of the line $y = 2x + 1$?
- 6 What is the gradient of the line perpendicular to $y = 2x - 5$?
- 7 What angle does the line $y = 2$ make with the x-axis?
- 8 In the triangle, what is $\cos 30^\circ$?
- 9 Factorise: $x^2 + 4x + 3$
- 10 Two sides of a right-angled triangle are 2 and 3, what is the hypotenuse?



Sample 3