

Geometry, Measurement & Transformations

Question 1: Multiple choice

(20)

1. Identify the 3-D shape with 10 vertices, 15 edges and 7 faces.

A) hexagonal prism	B) pentagonal pyramid
C) hexagonal pyramid	D) pentagonal prism
2. A square with an area of $40\,000\text{ cm}^2$, has sides of:

A) 20 cm	B) 200 cm
C) $20\,000\text{ mm}$	D) $0,2\text{ m}$
3. Which one of the following formulas can be used to calculate the area of a circle?

A) $A = \pi r^2$	B) $A = \pi r$
C) $A = 2\pi r$	D) $A = \pi \Delta$
4. The sum of the interior angles of a scalene triangle is equal to:

A) 360°	B) 180°
C) 720°	D) 90°
5. The diagonals of a rectangle form:

A) two equilateral triangles	B) two scalene, right-angled triangles
C) two isosceles triangles	D) two quadrilaterals
6. How many lines of symmetry are there in a regular octagon?

A) none	B) ten
C) eight	D) twelve
7. If a right angle is added to an acute angle, the new angle will be a/an:

A) obtuse angle	B) reflex angle
C) revolution	D) straight angle
8. Which of the following shapes can be classified as a parallelogram?

A) square	B) trapezium
C) rectangle	D) rhombus
9. One of the following shapes has only two lines of symmetry?

A) pentagon	B) square
C) parallelogram	D) rectangle
10. Which formula can be used to calculate the area of a triangle.

A) $A = \pi r^2 \times \frac{1}{2} H$	B) $A = b \times \frac{1}{2} H$
C) $A = \frac{1}{2} H \times b$	D) $A = \frac{1}{2} b \times \frac{1}{2} H$

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