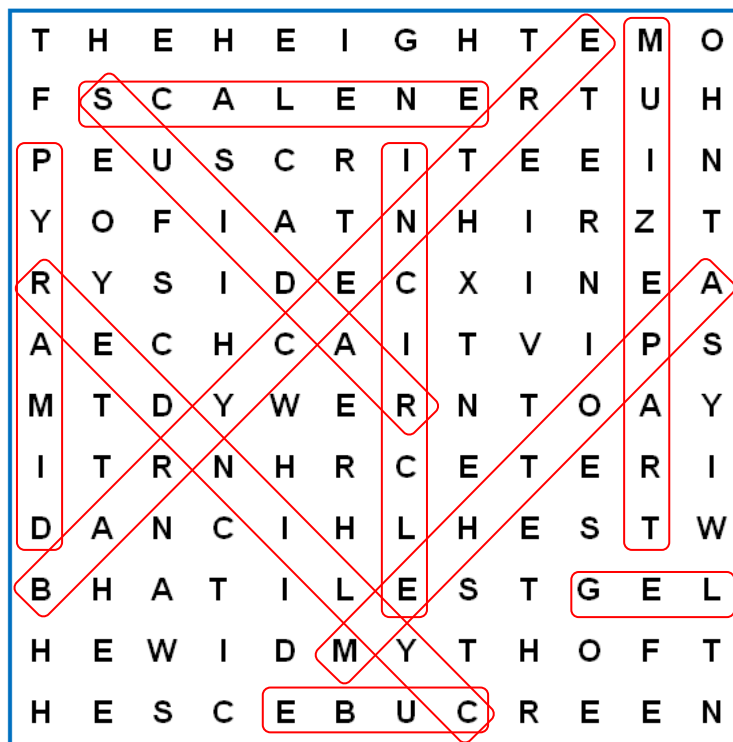


WORD SCRAMBLE (Answers)

Unit 11: Plane and 3-D shapes



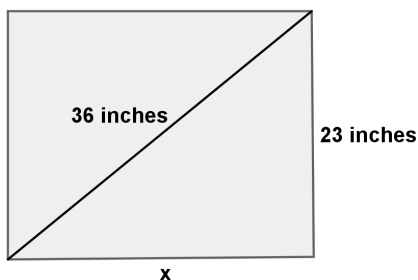
- a) A triangle that has no equal sides, no equal angles. **SCALENE**
- b) The point where the three medians of a triangle intersect.
BARYCENTRE
- c) The largest circle that fits inside the triangle. **INCIRCLE**
- d) A quadrilateral that has a pair of opposite sides parallel.
TRAPEZIUM
- e) The **APOTHEM** of a regular polygon is a line from the centre to the midpoint of a side.
- f) The distance from the centre to any point on the circumference.
RADIUS
- g) One of the two sides that make the right angle in a right-angled triangle. **LEG**
- h) A polyhedron where the base is a polygon and the lateral faces are triangles which meet at the top (the vertex). **PYRAMID**
- i) Regular polyhedron with six square faces. **CUBE**
- j) The solid of revolution that is generated when a rectangle rotates around one of its sides. **CYLINDER**

The letters not used in the word scramble make a word problem. Could you work it out?



THE HEIGHT OF THE SCREEN OF A THIRTY-SIX INCH TV IS TWENTY-THREE INCHES. WHAT IS THE WIDTH OF THE SCREEN?

x: the width of the screen



$$x^2 + 23^2 = 36^2 \text{ (Pythagoras' Theorem)}$$

$$x^2 + 529 = 1296$$

$$x^2 = 1296 - 529$$

$$x^2 = 767$$

$$x = \sqrt{767} \approx 27.7$$

Solution: The width of the screen is 27.7 inches.