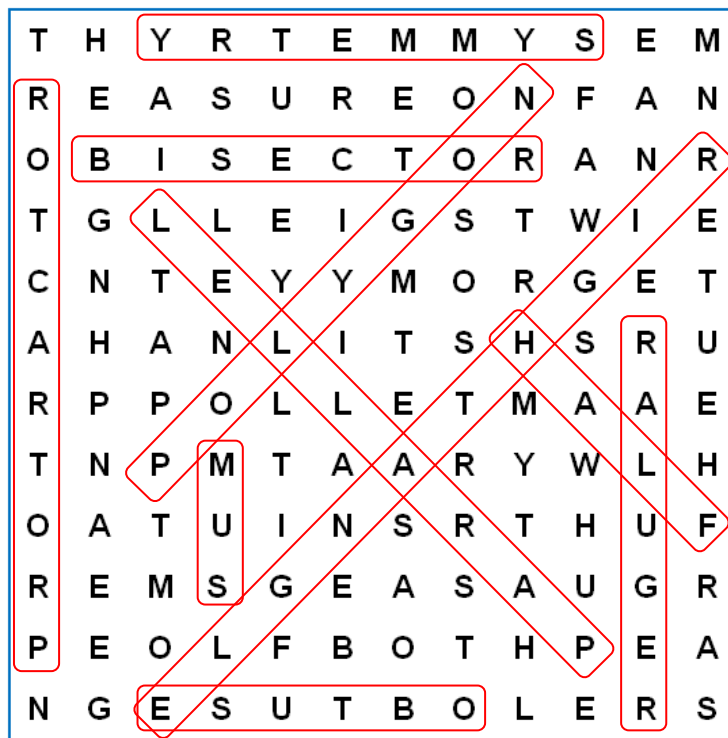


## WORD SCRAMBLE (Answers)

### Unit 10: Lines and angles



- You measure and draw angles in degrees using a **PROTRACTOR**.
- Two lines in the same plane which never intersect are called **PARALLEL** lines.
- An angle that is greater than  $90^\circ$  but less than  $180^\circ$ . **OBTUSE**
- An angle **BISECTOR** is a line passing through the vertex of the angle that cuts it into two equal smaller angles.
- A plane closed shape with three or more straight sides. **POLYGON**
- The **SUM** of the interior angles in a triangle is  $180^\circ$ .
- An inscribed angle  $a^\circ$  is **HALF** of the central angle  $2a^\circ$ .
- An angle inscribed in a semicircle is always a **RIGHT ANGLE**.
- A **REGULAR** polygon has all sides the same length and all interior angles equal.
- Reflection **SYMMETRY** is easy to recognize, because one half is the reflection of the other half.

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



THE MEASURE OF AN ANGLE IS TWENTY MORE THAN ITS SUPPLEMENTARY. WHAT IS THE MEASURE OF BOTH ANGLES?

$x$ : the measure of an angle

$x + 20$  : the measure of its supplementary

$$x + (x + 20) = 180$$

$$x + x + 20 = 180$$

$$x + x = 180 - 20$$

$$2x = 160$$

$$x = 80$$

Solution: The measure of the angle is  $80^\circ$  and the measure of its supplementary is  $100^\circ$ .