

SANGAM SKM COLLEGE - NADI
YEAR 9 BASIC TECHNOLOGY WORKSHEET
WEEK 4 2021

TOPIC: GEOMETRY 2D/3D SHAPES WORD PUZZLE

Circle – 2D Shape where the edges are all the same distance from a center point.	Prism – 3D shape consisting of a stack of identical base shapes stacked on top of each other.
Cone – Special type of pyramid where the base is a circle.	Pyramid – 3D shape consisting of a polygon base and triangular faces meeting at a common point above the base.
Cube – 3D shape with all faces are composed of squares.	Rectangle – Special parallelogram where the interior angles are all right angles.
Cylinder – Special type of prism where the base shape is a circle.	Rhombus – Special parallelogram with equal sides and opposite angles are equal to each other.
Ellipse – An ellipse is a 2D shape where the path traced when the sum of the distances between two fixed points is a constant.	Sphere – 3D shape where each point of the surface is an equal distance from a center point.
Pentagon – 2D shape with five sides of equal length.	Square – Special parallelogram with all sides the same length.
Hexagon – 2D shape with six sides of equal length.	Trapezoid – Special parallelogram where two sides are parallel to each other.
Octagon – 2D shape with eight sides of equal length.	Triangle – 2D enclosed shape consisting of three connected sides.
Parallelogram – Closed 2D figure formed by four sides and the opposite sides are parallel to each other.	
Polygon – General name of a 2D closed shape	

These shapes can be found vertically, horizontally, and diagonally as well as forwards and backward.



DESIGN AND ENTERPRISING

PART A

TRUE OR FALSE

1. Labour cost is calculated by multiplying the Labour Rate and Time consumed. ____
2. Total cost in a project is calculated by adding Material + Labour cost ____
3. One quality of an entrepreneur is to be innovative ____
4. Recycling increases the cost of the design projects ____
5. The first stage in design process is research ____
6. The study of people in their working environment is called ergonomics ____
7. Sustainable design is the philosophy of designing physical objects that will benefit many future generations without harming them. ____
8. Buying of project materials is considered to be overhead cost. ____
9. Dowels are inserted in the dowel joint. ____
10. Collection of information is called Research. ____

PART B

In the given Pictorial crate box given below create your own designed shoe rack.

