

WELLAND GOULDSMITH SCHOOL

CLASS – 2

SUBJECT – ARITHMETIC

TOPIC - SHAPES AND PATTERNS (WORKSHEET)

LESSON – 9

SYNOPSIS

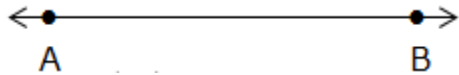
Line Segment

A line segment is formed when two points are joined. The two given points are called the end points of the line segment. A line segment is a line with two endpoints.



Line

When we extend line segment through its end points in both direction infinitely (without any end), a line is formed. A line has no ends.



Curve

A curve is a line which not straight and drawn without lifting a pencil/pen. A closed curve is a curve that begins and ends at the same point.




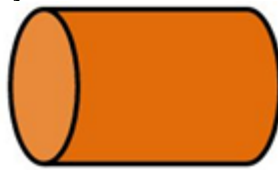
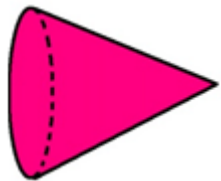
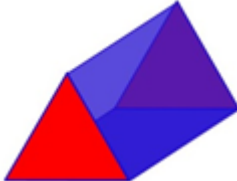



Face – The flat side or surface of the solid are known as face or side of the solid

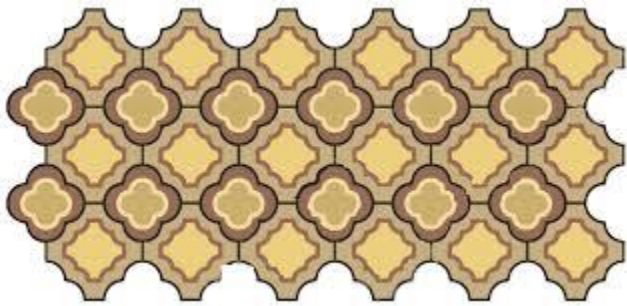
Edge – A line along which two faces or surfaces or sides of solid meets.

Vertex/ Corner – A point where 3 or more edges meets.

Solid Shapes

<p>Cube</p> 	<p>No. of Corners = 8</p> <p>No. of Edges = 12</p> <p>No. of Faces = 6</p>
<p>Cuboid</p> 	<p>No. of Corners = 8</p> <p>No. of Edges = 12</p> <p>No. of Faces = 6</p>
<p>Sphere</p> 	<p>No. of Corners = 0</p> <p>No. of Edges = 0</p> <p>No. of Faces = 0</p>
<p>Cylinder</p> 	<p>No. of Corners = 0</p> <p>No. of Edges = 2</p> <p>No. of Faces = 3 (2 flat face top and bottom and 1 curved face)</p>
<p>Cone</p> 	<p>No. of Corners = 0</p> <p>No. of Edges = 1</p> <p>No. of Faces = 1</p>
<p>Prism</p> 	<p>No. of Corners = 6</p> <p>No. of Edges = 9</p> <p>No. of Faces = 5</p>
<p>Pyramid</p> 	<p>No. of Corners = 5</p> <p>No. of Edges = 8</p> <p>No. of Faces = 5</p>

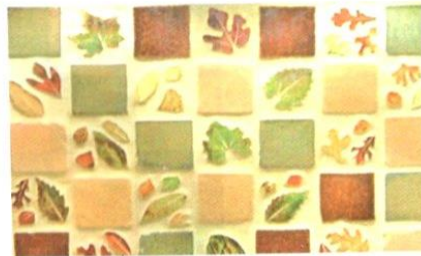
Patterns



PATTERNS



This is a rug in
Bijoy's parents' room.



These tiles are in
Bijoy's kitchen.



This flower grows in
Bijoy's neighbourhood.



Bijoy's mother made this
rangoli on Diwali.

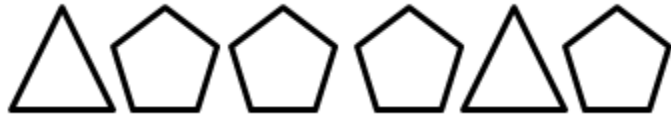
There are patterns all around us.

Worksheet

Practice Page 1

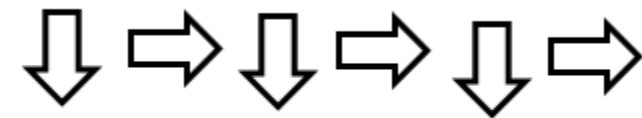
Draw the shape that comes next in the given pattern.

















Practice Page 2

Look at these numbers, alphabets and symbols and answer the following questions.

6

∞

8

£

9

1

/

2

A

Q

E

4

5

C

3

R

Which of the above number, alphabet or symbol are made of

a. Straight lines only? _____

b. Curved lines only? _____

c. Both straight and curved lines? _____

Practice Page 4

Write the number of faces, number of corners and number of edges.

Cube



No. of Corners = _____

No. of Edges = _____

No. of Faces = _____

Cuboid



No. of Corners = _____

No. of Edges = _____

No. of Faces = _____

Sphere



No. of Corners = _____

No. of Edges = _____

No. of Faces = _____

Cylinder



No. of Corners = _____

No. of Edges = _____

No. of Faces = _____

Cone



No. of Corners = _____

No. of Edges = _____

No. of Faces = _____

Prism



No. of Corners = _____

No. of Edges = _____

No. of Faces = _____

Pyramid



No. of Corners = _____

No. of Edges = _____

No. of Faces = _____

Repeating Pattern

Circle the picture that comes next in each picture pattern.

1)



2)



3)



4)



5)



TEXT BOOK EXCERISES

PAGE 132 WARM UP EX – A, B.

PAGE 133 CHECK POINT

PAGE 134 CHECK POINT

PAGE 135 LEARNING BY DOING.

PAGE 136 LEARNING BY DOING AND CHECK POINT

PAGE 138 EX – 9.1 A, B.

PAGE 139 EX – 9.2 A

PAGE 140 EX – B, C.