

# Answers

## Theme 3: Where we live Lesson-5: Geometry and Patterns

### Main Coursebook






#### I am ready

- a. ✓    b. ✗    c. ✗    d. ✓    e. ✗  
f. ✗    g. ✓




#### Catch Up (Page 51)

- no                      2. yes                      3. yes
- a. 5                      b. 4                      c. 4                      d. 8
- a. Point (Point A)                      b. ray ( $\overrightarrow{RS}$ )  
c. line segment ( $\overline{DE}$ )                      d. line ( $\overleftrightarrow{AB}$ )
- a. (Accept all relevant responses)  
b. (Accept all relevant responses)

#### Catch Up (Page 54)






- no                      2. yes                      3. yes
- a. 4; 4                      b. 3; 3                      c. 0; 0                      d. 4; 4
- a.                       b. 
- c.                       d. 
- e.                       f. 15 18 21

#### Mental Maths

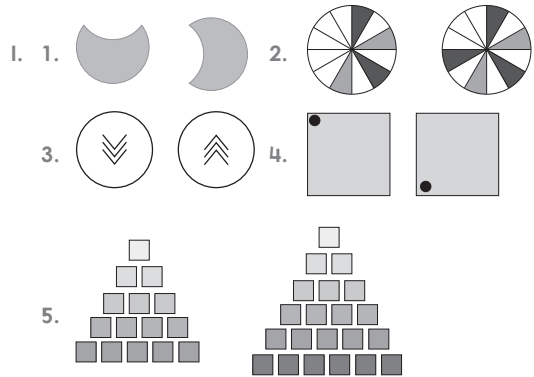
- a. true                      b. false                      c. false                      d. false  
e. true                      f. true
- a.                       b.                       c. e E                      d. 

#### I am a learner

1. c                      2. d                      3. a                      4. c                      5. b
1. Intersecting lines                      2. Horizontal line  
3. Slanting line                      4. Curved line  
5. Parallel lines                      6. Vertical line
- Do yourself
- Accept all relevant responses.
- Do yourself

Shapes	Name of the shapes	Number of sides	Number of corners
	Circle	0	0
	Square	4	4
	Triangle	3	3
	Rectangle	4	4
	Quadrilateral	4	4

1. Cuboid                      2. Cylinder                      3. Cube  
4. Sphere                      5. Cone                      6. Cylinder  
7. Cone                      8. Cuboid
- Accept all relevant responses.



1. 60, 50, 40, 30                      2. 125, 150, 175, 200  
3. 68, 83, 98, 113                      4. 104, 90, 76, 62

#### I am a thinker

Try yourself

#### I am an all-rounder

##### A. English

Basketball - Sphere, Drumstick - Cylinder, Notebook - Cuboid, Cupboard - Cuboid

##### B. Science

Cylinder

##### C. Social Studies

Charminar - cuboid; India Gate - Cuboid; Qutb Minar - Cylinder

### Students' Worksheets

#### Worksheet 1

1. true                      2. false                      3. true  
4. false                      5. true
1. Parallel lines                      2. Curved line  
3. Intersecting lines                      4. Vertical line segment  
5. Slanting line
1. 5                      2. 1                      3. 8  
4. 2                      5. 5 pairs

#### Worksheet 2

1. no                      2. line                      3. end point  
4. intersecting                      5. parallel
1. Sides: PS, SR, RQ and QP; Corners: P, S, Q and R  
2. Sides: AB, BC, CD and DA; Corners: A, B, C and D  
3. Sides: LM, MN and NL; Corners: L, M and N

4. No sides and no corners
5. Sides: WX, XY, YZ and ZW; Corners: W, X, Y and Z

1. Quadrilateral
2. Rectangle
3. Triangle
4. Circle
5. Square

### Worksheet 3

A. Do yourself

- B. 1. 9, 11
2. 8, 10
3. 20, 25
4. 10, 13
5. 18, 22

- C. 1. c
2. b
3. c
4. a
5. b

### Worksheet 4

- A. 1. edge
2. 2
3. plane
4. corner
5. straight, curved




- B. 1. 
2. 

3. 
4. 
5. 

- C. 1. A line goes on forever in both directions.
2. A ray has one end point.
3. A square has 4 equal sides.
4. A cube has 6 faces and all the faces are squares.
5. In a pattern, the shape can repeat or change in a rule.

## Teacher's Worksheets

### Worksheet 1

- A. 1. a
2. c
3. b
4. c
- B. 1. no
2. straight
3. curved
4. two
5. ray
- C. 1. S
2. C
3. C
4. S
- D. 1. 
2. 
3. 

### Worksheet 2

- A. 1. d
2. b
3. c
4. b
- B. 1. sphere
2. cuboid
3. cone
4. cube
5. cylinder
6. cuboid
- C.

Solid shape	Faces		Edges		Corners
	Flat	Curved	Straight	Curved	
1. Cube	6	0	12	0	8
2. Sphere	0	1	0	0	0
3. Cone	1	1	0	1	1
4. Cylinder	2	1	0	2	0