



- B. 1.  $\frac{10}{20}$ ; 50%      2.  $\frac{23}{50}$ ; 46%      3.  $\frac{19}{100}$ ; 19%
- A. 1. 93%      2. 492%      3. 683%
4. 2945%      5. 4864%      6. 8%
- D. 1. 100      2. 36      3. 200
4. 76      5. 320      6. 186

### Worksheet 2

- A. 1. 50 days      2. 57 pages      3. 15.30 m
4. 7.2 l      5. 6 km      6. 54 kg
- B. 1. 2.5%      2. 1%      3. 30%
4. 120 p      5. 5%      6. 35 kg
- C. 1. 60%      2. 80%      3. 2,782 girls

## Theme 4: Living With Changes

### Ch-7: Geometry

#### Main Coursebook

#### I am ready

- a. C      b. B      c. S
- d. S      e. B      f. C

#### Icebreaker: Line

1. a. OQ, OR, OS, OP, OU, OT  
b. RT  
c. OQ, OR, OS, OP, OU, OT, RT
2. Try yourself      3. Try yourself
4. a. open curve      b. open curve  
c. closed curve      d. closed curve  
e. open curve

#### In-text Question

1. No      2. Yes
5. a. 60°      b. 90°      c. 120°  
d. 180°      e. 30°
6. Try yourself
7. a. Intersecting lines      b. Perpendicular lines  
c. Parallel lines
8. diameter: AB; radius: OA, OB, OC; chord: AB, DE; circumference: ACBDE; centre: O; arc: ED, AC, AB, BC

#### Mental Maths

1. A 3    K 3    M 3    N 2    Z 2
2. H 4    L 1    T 2    F 4    I 0
3. M, E, V, Y: straight; G, P, J: both curved and straight; S: Curved

#### I am a learner

- A. 1. c      2. b      3. b      4. b      5. d
- B. 1. c      2. d      3. e      4. a      5. b
- C. Try yourself

- D. 1. intersecting lines      2. parallel lines  
3. perpendicular lines      4. parallel lines  
5. intersecting lines
- E. 1. Obtuse      2. Right      3. Acute  
4. Acute      5. Obtuse
- F. 1. 45°      2. 60°      3. 120°  
4. 150°      5. 180°

#### I am a thinker

1. right angle
2. a. Straight angle      b. Right angle  
c. Obtuse angle      d. Acute angle

#### I am an all-rounder

- A. **English** – 1. What      2. Which
- B. **Science** – river
- C. **Social Studies** – H and E

#### Students' Worksheets

#### Worksheet 1

- A. 1. closed      2. Parallel      3. ray  
4. 10      5. 180
- B. 1. intersecting      2. parallel      3. intersecting  
4. perpendicular      5. intersecting
- C. 1. Arms- OA, OB; Vertex- Answer may vary  
2. Arms- QP, QR; Vertex- Answer may vary  
3. Arms- LM, MN; Vertex- Answer may vary  
4. Arms- ST, SR; Vertex- Answer may vary  
5. Arms- OM, ON; Vertex- Answer may vary

#### Worksheet 2

- A. 1. e      2. d      3. a      4. b      5. c
- B. 1. pentagon      2. decagon      3. triangle  
4. octagon      5. square
- C. 1. A      2. S      3. O      4. R      5. A

#### Worksheet 3

- A. 1. no      2. semi-circular  
3. straight lines      4. Line  
5. circumference
- B. 1. false      2. true      3. false  
4. true      5. true
- C. 1. 56°      2. 89°      3. 102°  
4. 136°      5. 170°

#### Worksheet 4

- A. 1. Octagon      2. Triangle      3. Decagon  
4. Hexagon      5. Nonagon
- B. 1. Right angle      2. Obtuse angle  
3. Straight angle      4. Acute angle  
5. Acute angle
- C. 1. O      2. C      3. O      4. C      5. O

## Teacher's Worksheets

### Worksheet 1

- A. 1. Obtuse angle      2. Acute angle  
 3. Straight angle      4. Right angle
- B. Try yourself
- C. 1. Centre      2. radius      3. diameter  
 4. circumference      5. semicircle

### Worksheet 2

- A. 1. intersecting      2. parallel  
 3. perpendicular      4. straight angle  
 5. protractor
- B. Try yourself
- C. 1. 9 cm      2. 15.6 cm      3. 7 cm  
 D. 1. 5 cm      2. 4.4 cm      3. 4.5 cm

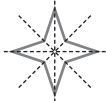
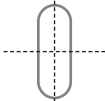
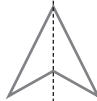
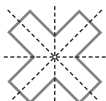
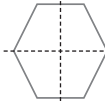





## Theme 5: Living Across Ages

### Ch-8: Symmetry, Patterns and Nets

## Main Coursebook
















I am ready: Try yourself

Icebreaker: Rectangle, square, triangle

1. a.  b.  c. 
- d.  e. 
2. a.  b.  c. 
- d.  e. 

### In-text Questions

1. Yes      2. No  
 3.

Shape	$\frac{1}{4}$ turn	$\frac{1}{2}$ turn
a. 		
b. 		
c. 		
d. 		
e. 		

4. a. 12      b. 12222  
 c. 57      d. 23,440

### In-text Question

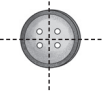




1. 6      2. Half turn  
 5. Try yourself  
 6. a. Front, side, top      b. Top, front, side  
 c. Top, front, side      d. Front, side, top

### Mental Maths

1. a. 6      b. triangle and semicircle  
 c. four      d. H

### I am a learner

- A. 1. b      2. a      3. d      4. c      5. c

- B. 1.  2.  3. 
4.  5. 

- C. Try yourself  
 D. 1. a      2. a      3. c      4. b

I am a doer: A

I am an all-rounder

- A. **English** – puff      huff  
 B. **Science** – Try yourself  
 C. **Social Studies** – Try yourself

## Students' Worksheets



### Worksheet 1

- A. 1. equal      2. asymmetrical  
 3. infinite      4. 90      5. six
- B. 5  
 C. 3

### Worksheet 2

- A. 2, 4  
 B. 5  
 C. Try yourself

### Worksheet 3

- A. Regular polygons: 1, 2, 5  
 Irregular polygon: 3, 4
- B. 1. 3:15; 3:45
2. 
3. 123454321; 12345654321
4. 25; 36
5. 
- C. 2

### Worksheet 4

- A. 4      B. Try yourself  
 C. 1. a      2. b      3. a      4. a      5. c

## Teacher's Worksheets

### Worksheet 1

- A. 1, 4, 6  
 B. Try yourself  
 C. 1. One                      2. One                      3. Infinite  
    4. Two                        5. One

### Worksheet 2

A.

	Shape	on $\frac{1}{4}$ turn	on $\frac{1}{2}$ turn
1.			
2.			
3.			
4.			
5.			

- B. 1. Front                      Side                      Top  
 2. Top                        Front                      Side  
 3. Side                        Top                        Front

## Theme 6: Living Together

### Ch-9: Profit and Loss

## Main Coursebook

### I am ready

- a. ₹100                      b. ₹281.25                      c. ₹123  
 d. ₹109                      e. ₹561                      Total = ₹1174.25

### Icebreaker: ₹210

### In-text Question

1. Yes                                      2. No
1. a. Profit = ₹48                      b. Profit = ₹315  
 c. Profit = ₹1,715                      d. Loss = ₹2,414  
 e. Loss = ₹3,271                      f. Loss = ₹11,041
2. a. Loss = ₹18,154                      b. Profit = ₹239.50  
 c. ₹3,800                                      d. Loss of ₹232.50
3. a. ₹3982                      b. ₹12245                      c. ₹45692
4. a. ₹3130                      b. ₹11211                      c. ₹30550
5. a. ₹70107                      b. ₹33409                      c. ₹10530

### In-text Question

1. Cost price                                      2. Selling price
6. a. ₹605                      b. ₹965.12                      c. ₹1,087.68  
 7. a. ₹299.25                      b. ₹597.06                      c. ₹1,386  
 8. a. 40%                                      b. 50%                                      c. 11.11%

9.

ITEM	QUANTITY (QTY)	RATE (IN ₹)	AMOUNT (QTY × RATE)
Cookies	5	110	₹550
Breads	2	40	₹80
Buns	5	35	₹175
Pastries	10	62.50	₹625
Cup cakes	20	24	₹480
Total			₹1,910

₹90

10. a.

ITEM	QUANTITY	RATE (IN ₹)	AMOUNT
Oranges	2 kg	₹120	₹240
Grapes	2 ½ kg	₹150	₹375
Bananas	5 dozen	₹60	₹300
Watermelons	8	₹45	₹360
Total			₹1275

b.

ITEM	QUANTITY	RATE (IN ₹)	AMOUNT
Ice cream bars	4	₹15	₹60
Ice cream cups	10	₹10	₹100
Ice cream sandwiches	5	₹35	₹175
Brick ice creams	2	₹225	₹450
Total			₹785

### Mental Maths

- a. less                                      b. Selling price  
 c. overhead charges                      d. subtract  
 e. Cost price

### I am a learner

- A. 1. c                      2. a                      3. b                      4. c                      5. a  
 B. a. iv                      b. v                      c. ii                      d. i  
    e. vi                      f. iii  
 C. a. ₹5139                      b. ₹20,490                      c. ₹950.4  
    d. ₹1666                      e. ₹16,380  
 D. a.

ITEM	QUANTITY	RATE (IN ₹)	AMOUNT
Biscuits	5	₹6.50	₹32.5
Raisins	7	₹86.50	₹605.5
Chocobar	4	₹15.25	₹61
Coconut water	10	₹25	₹50
Total			₹749

b.

ITEM	QUANTITY	RATE (IN ₹)	AMOUNT
Notebooks	8	₹142	₹1136
Pens	6	₹67	₹402
Calculators	3	₹180	₹540
Rulers	10	₹12	₹120
<b>Total</b>			₹2198

c.

ITEM	QUANTITY	RATE (IN ₹)	AMOUNT
Shirts	5	₹499	₹2495
Frocks	6	₹859	₹5154
shoes	4 pairs	₹499	₹1996
Handkerchiefs	10	₹20	₹200
<b>Total</b>			₹9845

I am a thinker: ₹96 profit

I am an all-rounder

A. English:

SELLING PRICE: The price at which they sell the goods to their customers is called the selling price (SP).

COST PRICE: The price at which a shopkeeper buys goods from the market is called the cost price (CP).

LOSS: The loss is the amount lost by selling an article at a price less than its cost price.

PROFIT: The profit is the amount gained by selling an article at a price greater than its cost price.

B. Science: ₹1.25

C. Social Science: ₹85

## Students' Worksheets

### Worksheet 1

- A. A. Cost price B. price C. additional  
4. profit 5. cost price  
B.

	Cost price (CP)	Selling price (SP)	Profit	Loss
1.	₹2,432	₹2,558	₹126	
2.	₹3,211	₹2,772		₹439
3.	₹10,635	₹15,096	₹4,461	
4.	₹12,224	₹12,224	₹0	₹0
5.	₹23,246	₹17,614		₹5,632

C.

	Cost price (CP)	Selling price (SP)	Profit	Loss
1.	₹315	₹563	₹248	
2.	₹1744	₹856		₹888
3.	₹2457	₹2547	₹90	
4.	₹5632.50	₹1250.50		₹4,382
5.	₹25,335	₹29,657	₹4,322	

### Worksheet 2

- A. 1. ₹501 2. ₹4,307 3. ₹10,261  
4. ₹22,097 5. ₹29,571  
B. 1. ₹774 2. ₹1,006 3. ₹7,900  
4. ₹10,136 5. ₹19,248

C.

	Cost price (CP)	Selling price (SP)	Profit	Loss
1.	₹472	₹717	₹245	
2.	₹1,553	₹1,642	₹89	
3.	₹6,582	₹6,582		0
4.	₹15,347	₹8,765		₹6,582
5.	₹21,011	₹34,211	₹13,200	

### Worksheet 3

- A. 1. profit 2. profit 3. loss  
4. loss 5. profit  
B. 1. ₹686 2. ₹1,345 3. ₹1,560  
4. ₹9,299 5. ₹27,439  
C. 1. ₹120 2. ₹1,600 3. ₹4,380  
4. ₹5,530 5. ₹48,322

### Worksheet 4

A.

	Cost price (CP)	Selling price (SP)	Profit	Loss
1.	₹398	₹524	₹126	
2.	₹4,421	₹5,074	₹653	
3.	₹16,111	₹16,111	₹0	
4.	₹26,232	₹23,621		₹2,611
5.	₹65,166	₹65,166		₹0

- b. 1. true 2. false 3. true  
4. true 5. true  
C. 1. c 2. e 3. b 4. a 5. d

## Worksheet 5

- A. 1. ₹109      2. ₹15,662      3. ₹14,572  
4. ₹29,019      5. ₹1,05,033
- B. 1. ₹968      2. ₹1,780      3. ₹3,410  
4. ₹42,118      5. ₹44,959
- C. 1. Loss

## Teacher's Worksheets

### Worksheet 1

- A. 1. ₹107      2. ₹425      3. ₹160  
4. ₹790      5. ₹1215
- B. 1. 20%      2. 10%      3. 87.5%  
4. 8%
- C. 1. 20%      2. 20%      3. 25%  
4. 50%

### Worksheet 2

1. Stationery    2. MG Road, Bengaluru  
3. Cardboard, pen, notebook, colour box, pencil box  
4. 5 items      5. 2 boxes      6. ₹125  
7. 23/08/2013    8. ₹695

## Theme 6: Living Together

### Ch-10: Mapping Skills

## Main Coursebook

### I am ready

North	East	South	West
Delhi	Bihar	Andhra Pradesh	Maharashtra
Haryana	Jharkhand	Karnataka	Gujarat
Himachal Pradesh	Orissa	Kerala	Goa
Punjab	West Bengal	Tamil Nadu	
Rajasthan			
Uttar Pradesh			
Uttarakhand			
Chandigarh			

**Icebreaker:** West, North and South.

**In-text Question:** 1. yes      2. no

1. Try yourself
2. a. south      b. East      c. Post office
3. a. Telangana  
b. Arabian Sea and Indian Ocean  
c. East

### Mental Maths

1. a. 330 km      b. 81 cm  
c. 520 km      d. 27 cm

### I am a learner

- A. 1. d      2. c      3. b      4. a      5. c
- B. 1. A legend displays the meaning of the symbols, colors and styles used to represent geographic data on the map.

### 2. Five benefits of a map:

- People understand them independently of their language
- Map contains much more information than words
- Everyone can make a basic one
- The understanding of them is improved by own knowledge and experience
- Map can be folded easily and we can carry every where

- C. 1. sub-tropical wet and dry  
2. tropical wet and dry  
3. Sub-tropical wet and dry  
4. Sub-tropical wet and dry  
5. Panji and Thiruvananthapuram
- D. 1. 1.8 cm; 2.7 km  
2. 1.4 cm; 2.1 km  
3. 3.7 cm; 5.55 km

**I am an artist:** Accept the all relevant responses.

**My Secret Journal:** Accept the all relevant responses.

**I am a doer:** 15 km;

When an appliance is on standby, it still consumes power. This is why we should turn off the switch of your TV, desktop, phone charger, and even your microwave when it isn't being used.

### I am an all-rounder

#### A. English:

1. A map is a visual representation of places on a flat surface.
2. Scale helps us represent the picture of anything.

B. **Science:** Accept all the relevant responses.

C. **Social Studies:** Accept all the relevant responses.

## Students' Worksheets

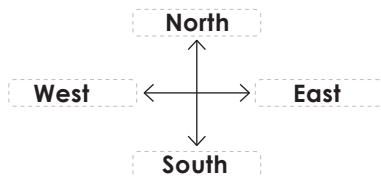
### Worksheet 1

- A. 1. Map keys use symbols, colours, lines and signs to represent various features on a map.
2. A map is a visual representation of places on a flat surface.
3. Scale helps us represent the picture of anything, but in a smaller size, without affecting its shape.
4. Direction helps in reading maps. The four main directions are North (N), South (S), East (E) and West (W).
5. Online maps help to reach anywhere by keying in the address on it.

- B. 1. 3 km      2. 6 km      3. 8 km  
 4. 12 km      5. 36 km
- C. 1. false      2. true      3. true  
 4. false      5. true

### Worksheet 2

A.



- B. 1. hospital      2. police station  
 3. airport      4. super market  
 5. restaurant
- C. 1. false      2. false      3. false  
 4. true      5. true

### Worksheet 3

- A. 1. South  
 2. Map keys use symbols, colours, lines and signs to represent various features on a map. They are usually located at the bottom left or right of a map.  
 3. East, West, North and South. The angle between North and East is  $90^\circ$ .  
 4. online maps  
 5. scale
- B. 1. false      2. false      3. true  
 4. true      5. false
- C. 1. West      2. East      3. South  
 4. North      5. East

### Worksheet 4

- A. Accept all the relevant responses.
- B. 1. top      2. directions      3. map  
 4. key      5. scale
- C. 1. East      2. West      3. South  
 4. North      5. North

## Teacher's Worksheets

### Worksheet 1

- A. 3. Restaurant      4. 

### Worksheet 2

- A. 1. b      2. b
- B. 1. SE      2. E      3. SW  
 4. S      5. NE

## ENRICHMENT ACTIVITIES

- A. Try yourself  
 B. Try yourself  
 C. Try yourself

## REVISION WORKSHEET

A.

Fraction	Decimal	Per cent
$\frac{5}{100}$	0.05	5%
$\frac{95}{100}$	0.95	95%
$\frac{100}{100}$	1.0	100%
$\frac{78}{100}$	0.78	78%
$\frac{117}{100}$	1.17	117%

- B. 1. ₹3220237      2. Profit of 25%
- C. 1. iii      2. iv      3. ii      4. i
- D. Try yourself
- E. 1. Profit of ₹197      2. Loss of ₹248  
 3. Profit of ₹822      4. Profit of ₹335.10

F.

ITEM	QUANTITY (QTY IN PACKET)	RATE (IN ₹)	AMOUNT (QTY × RATE)
Bread	5	40	₹200
Milk	6	52	₹312
Biscuit	8	12.50	₹100
Muffins	7	25.50	₹178.50
<b>Total</b>			<b>₹790.50</b>

Amount returned = ₹1209.50

- G. 1. 3 cm      2. 4.1 cm      3. 7 cm  
 4. 10.4 cm
- H. 1. 26.6 cm      2. 53.60 cm      3. 87 cm  
 4. 158.8 cm
- I. 1. Obtuse      2. Acute      3. Right angle