ASSESSMENT PRACTICE BOOK

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OXFORD
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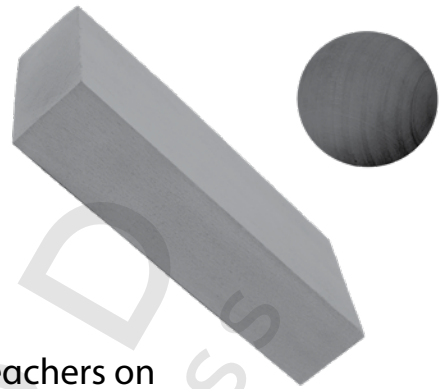
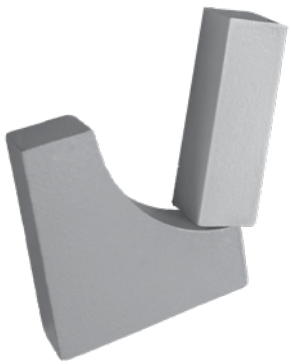
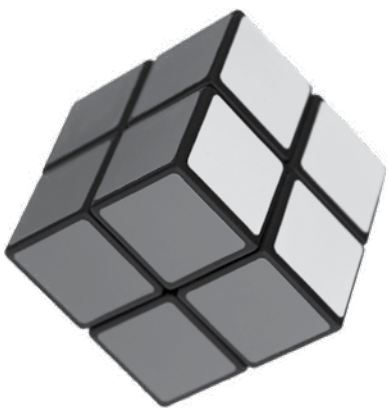


Introduction

The **Assessment Practice Book** directs the teachers on how to effectively make use of assessments in their classrooms. The Assessment Practice Book covers components of formative assessments, such as class tests, worksheets, homework, and quizzes. The teachers and students focus on common learning goals and work towards achieving them together.



The worksheets enhance an understanding of students' learning in many ways, and challenges them to approach and decipher the same concepts from different angles. The students also benefit from different types of assessments, as each type offers the student comprehensive feedback that will eventually guide them towards successfully arriving at their learning objectives.



Contents

1.1 Numbers up to one million

i. Read numbers up to 1,000,000 (one million) in numerals and words.

ii. Write numbers up to 1,000,000 (one million) in numerals and words.

1.2 Addition and Subtraction

i. Add numbers up to 6-digit numbers

ii. Subtract numbers up to 6-digit numbers

1. Write the given numbers in words.

a) 57 31208	
b) 6513128	
c) 4980009	
b) 3000574	

2. Write the given numbers in figures.

a) Seven million, two hundred thousand	
b) Nine million, five hundred thousand	
c) Five hundred thousand and seventy	

3. Write the place value of ringed digit.

a) 148(9)213		**b)** (3)873007		**c)** 5(0)92184	
d) 13(5)9259		**e)** 3108(9)85		**f)** 89081(3)7	

4. Write the following numbers in expanded form.

a) 7920105	
b) 4090010	

5. Arrange the numbers in ascending order.

29318282; 58317275; 5582945		

6. Write the numbers in descending order.

4782950; 477161; 4777480		

6. Write vertically and add.

a) 4952709 + 5683912	**b)** 3000814 + 278513
c) 9200581 + 5982100	**d)** 7857925 + 998269

7. Write the number which is:

a) 7000 more than 3259779	**b)** 500 more than 2362000
c) 5200 less than 862598	**d)** 34000 less than 8183450

8. Subtract the given numbers.

a) 259843 − 40189	**b)** 9213420 − 4108927	**c)** 4729519 − 4699909

9. Fill in the blanks.

a) The number 700 less than 428200 is _____.

b) The place value of 7 in the number 721895 is _____.

10. State whether the following are true or false.

a) The smallest 7-digit number is one hundred thousand. _____

b) The value of the ringed digit in 9(5)273 is 5. _____

11. Select the correct answer from the given options.

	A	B	C	D
a) Five million is a	6-digit number	7-digit number	8-digit number	9-digit number
b) 95 less than 2000000 is	1000005	2000015	1999905	100095
c) Express 4501907 in words	Forty five hundred thousand, one thousand, and nine hundred and seven	Four million, five thousand, nineteen hundred, and seven	Four million, fifty thousand, nineteen hundred, and seven	Four million, five hundred and one thousand, nine hundred, and seven
d) What should be added to 45000 to make 4 million?	4955000	3955000	4045000	3055000

12. Solve the following

a) In the month of July Azam had Rs 45900 in the bank. In August he earned a cash prize of Rs 90000 in a lucky draw. If he deposited this amount in the bank, what would his bank balance become?	
b) Sara earns Rs 7500 monthly as her salary. She spends Rs 3295 every month. What is her monthly saving?	
c) Faiza bought a wooden cupboard in Rs 218275.She gave Rs 250000 to the shopkeeper. How much amount she would get back?	

1.3 Multiplication and Division

- **i.** Multiply numbers, up to 5-digit, by 10, 100, and 1000
- **ii.** Multiply numbers, up to 5-digit, by a number up to 3-digit numbers.
- **iii.** Divide a number up to 5 -digit numbers by 10,100 and 1000
- **iv.** Divide numbers up to 5-digit numbers by a number up to 2-digit numbers.
- **v.** Solve real-life situations involving operations of addition, subtraction, multiplication, and division.

1.4 Number Patterns

- **i.** Identify and apply a pattern rule to determine missing elements for a given pattern
- **ii.** Identify the pattern rule of a given increasing and decreasing pattern and extend the pattern for the next three terms
- **iii.** Describe the pattern found in a given table or chart

Choose the correct answer from the given options.

1. Mom bought 25 books in Rs 3750. What did she pay for one book?

a) Rs 1050	**b)** Rs 105	**c)** Rs 150	**d)** Rs 110

2. If 5 litres of the liquid fills a bottle up to the neck. How many bottles will be needed to fill 345 l of the liquid?

a) 1725	**b)** 69	**c)** 345	**d)** 71

3. The smallest 5-digit number multiplied by 100 gives

a) the smallest 7-digit number	**b)** the smallest 6-digit number
c) the largest 7-digit number	**d)** the largest 6-digit number

4. Fill in the blanks.

a) $45600 \div 100 =$ ☐	**b)** $6900 \times 10 =$ ☐
c) $3589 \times 200 =$ ☐	**d)** $78950 \div 50 =$ ☐
e) $2426 \times 1000 =$ ☐	**f)** $30000 \div 1000 =$ ☐

5. State whether the following are true or false.

a) $(3 \times 10) + (9 \times 100) = 930$	☐
b) $(75 \times 100) + (750 \div 10) = 7575$	☐

c) $(4526 \times 6) - 156 = 20000$	
d) $(340 \times 8) + (34 \times 8) = 29920$	

6. Write vertically and multiply.

a) 69100×352	**b)** 82853×98	**c)** 11099×109

7. Perform the following division.

a) $23\overline{)89285}$	**b)** $483\overline{)95780}$	**c)** $185\overline{)45985}$

8. Complete the number patterns. State the pattern rule also.

a) 550, 545, ☐, ☐, 530, 515
b) 8, 16, ☐, 64, ☐, ☐, ☐
c) 224, 112, ☐, 28, ☐
d) 98, ☐, 106, ☐, 114

9. Identify the pattern rule and extend for the next three terms.

a) 115, 105, 95, 85, 75, ☐, ☐, ☐
b) 756, 252, 84, 28, ☐, ☐, ☐

2.1 HCF

i. Find HCF of
- two numbers up to 2-digit numbers
- three numbers up to 2-digit numbers using
  - prime factorisation method
  - division method

2.2 LCM

i. Find LCM of
- two numbers up to 2-digit numbers
- three numbers up to 2-digit numbers using
  - prime factorisation method
  - division method

ii. Solve real life situations involving HCF and LCM.

1. Fill in the blanks.

a) If a number is divisible by 6, then it is divisible by _____ and _____.

b) 1050 is divisible by _____, _____, _____, and _____.

c) If the unit and tens places of a number are 9 and 2 respectively, the number is divisible by _____ and _____.

d) A number ending with 5 is divisible by _____.

2. Find the HCF for each group of prime factors.

a) $7 \times 5 ; 7 \times 7 ; 7 \times 11$	**b)** $2 \times 2 \times 61 ; 3 \times 5 \times 61 ; 2 \times 7, 61$

3. Find HCF by prime factorisation method.

a) 48, 98	**b)** 84, 126, 189

4. Using division method find the HCF of the following numbers.

a) 640, 725, and 355	**b)** 600, 160, and 720

5. Find the LCM by prime factorisation.

a) 15, 30, and 55	**b)** 78, 70, and 91	**c)** 24, 32, and 40

6. Find the LCM by division method.

a) 35, 63, and 81	**b)** 85, 70, and 74

7. Solve the following.

a) A fruit seller has to pack 126 apples, 105 oranges, and 154 peaches equally in cartons, so that no fruit is left. What is the biggest possible number of cartons needed?	
b) Nida wants to plant 42 rose plants and 35 jasmine plants in her garden. What is the greatest possible numbers of rows if each row has same number of rose plants and same number of jasmine plants?	
c) Find the smallest number which on being added to 33 to it, is exactly divisible by 40, 45, and 60.	
d) Find the least length of a string which can be cut into whole numbers of pieces of 35 cm, 45 cm, and 75 cm.	
e) Ali, Ahsan, and Hamza cycle everyday along the circular path and take 8, 12, and 16 minutes respectively to complete a round. If all of them start together from the same place, after how much time they will meet at the same place again?	

3.1 Addition and Subtraction of Fractions

i. Add and subtract two or three fractions with different denominators.

3.2 Multiplication of Fractions

i. Multiply a fraction by a 1-digit numbers and demonstrate with the help of diagram

ii. Multiply two or three fractions involving proper, improper fractions, and mixed numbers.

iii. Solve real life situations involving multiplication of fractions.

3.3 Division of Fractions

i. Divide a fraction by another fraction involving proper, improper fraction, and mixed numbers.

ii. Solve real life situations involving division of fractions.

1. Add or Subtract.

a) $\frac{4}{5}+\frac{2}{3}=$	**b)** $\frac{8}{9}-\frac{7}{11}=$
c) $\frac{1}{2}+\frac{3}{5}+\frac{7}{15}=$	**d)** $4\frac{8}{9}+3\frac{1}{7}+2\frac{3}{5}=$
e) $7\frac{1}{5}-3\frac{2}{3}-1\frac{5}{7}=$	**f)** $15\frac{1}{6}+11\frac{3}{4}=$

2. Solve the following and demonstrate with the figure.

a) $\frac{3}{8}\times 8=$	**b)** $\frac{2}{5}\times 15=$	**c)** $\frac{9}{11}\times 33=$

3. Solve the following.

a) $\frac{25}{30}\times\frac{4}{5}=$	**b)** $\frac{3}{7}\times\frac{21}{9}=$
c) $\frac{5}{12}\times\frac{4}{25}=$	**d)** $1\frac{3}{5}\times 4\frac{3}{7}\times 5\frac{4}{5}=$

4. Solve the following.

a) $\frac{9}{15}\div\frac{3}{25}=$	**b)** $\frac{3}{25}\div\frac{4}{50}=$
c) $\frac{4}{35}\div\frac{16}{7}=$	**d)** $3\frac{11}{12}\div 2\frac{1}{2}=$

5. Choose the correct option.

a) $\frac{1}{9}+\frac{3}{5}$

A. $\frac{12}{9}$	**B.** $\frac{4}{14}$	**C.** $\frac{4}{45}$	**D.** $\frac{32}{45}$

b) $2\frac{1}{3}-1\frac{7}{9}$

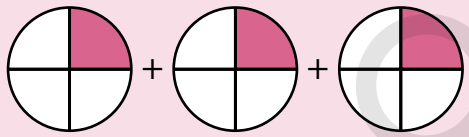
A. $\frac{5}{9}$	**B.** 1	**C.** $\frac{13}{3}$	**D.** $\frac{9}{3}$

c) The product of $\frac{4}{5}$ and $\frac{25}{8}$

A. $\frac{32}{125}$	**B.** $2\frac{2}{1}$	**C.** $2\frac{1}{2}$	**D.** $1\frac{2}{3}$

6. Which figure is showing $3\times\frac{1}{3}$

A.



B.

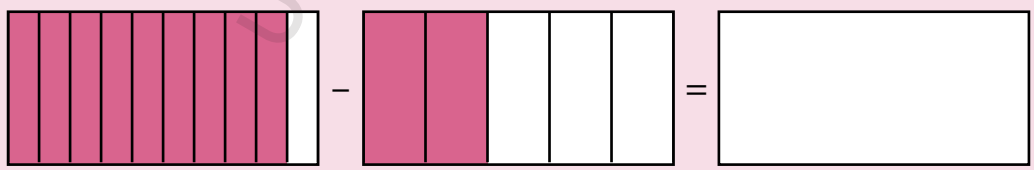
C.

D.

7. Add the fractions and give your answer by shading the bar.

A.

B.



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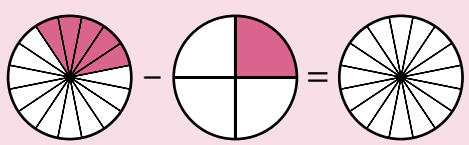
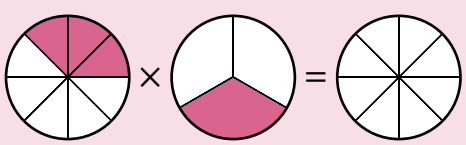
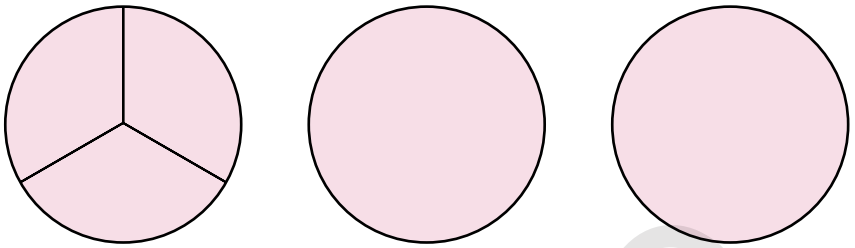


D.



8. A birthday cake has to be divided up among 12 children. The first cut has been done for you. What would the next cuts be? Draw the next cuts in the given figures.



9. Solve the problems.

a) Arsal and four of his friends have $\frac{7}{9}$ of a bag of candy each. How many bags of candy do they have altogether?	
b) Hasan has 12 glasses that are $\frac{3}{4}$ filled with mango juice. He pours all the juice from the glasses into a container. If he fills the glasses again, how many glasses can be filled completely?	
c) Saba walked $5\frac{1}{8}$ km on Monday. She walked $5\frac{5}{8}$ km on Tuesday. When did she walked more and how much more?	
d) Nimra brought 4 bags of cookies to school on her birthday. She distributed $2\frac{5}{6}$ bags among her friends and saved $\frac{1}{6}$ of bag for her siblings. How many bags of cookies were left with her?	

4.1 Decimal numbers

i. Compare numbers up to 3-digits with 2 decimal places using signs <,> or =.

ii. Arrange numbers up to 3-digit numbers with 2 decimal places in ascending and descending order.

1. Compare using <, >, or =.

a) 8.08 ☐ 8.88	**b)** 50.8 ☐ 50.7
c) 5.57 ☐ 5.55	**d)** 4.01 ☐ 4.01
e) 3.67 ☐ 3.76	**f)** 9.08 ☐ 9.10

2. A group of 5 students got their height and weight measured, the results are given below.

	Height (m)	Weight (kg)
Aimen	1.52 m	45.525 kg
Bina	1.58 m	45.530 kg
Dania	1.45 m	45.450 kg
Fahad	1.6 m	45.5 kg
Ali	1.49 m	44.915 kg

Write the students' height in ascending order and weight in descending order.

Height	Weight

3. Sidra took 3.25 minutes to complete the race and Hiba took 3.20 minutes to complete the race. Who won the race and by how much time?

	Ones		Tenth
Time taken by Sidra		.	
Time taken by Hiba		.	
		.	

4. Put the symbol < or > accordingly and write the order of the sequences.

a) 4.95 ☐ 4.90 ☐ 3.99 ☐ 3.9

☐ order

b) 5.90 ☐ 5.91 ☐ 5.93 ☐ 5.99

☐ order

5. Ali, Zohaib, and Ahmer have Rs 500, Rs 490.90, and Rs 599 respectively. Write the amounts in descending order.

☐ ☐ ☐

6. Hamza drank 50.55 ml of milk, while Rabia drank 50.5 ml of milk. Who drank more?

4.1 Decimal numbers

iii. Add and subtract 4-digit numbers up to 3-decimal places

1. Add or Subtract

	O	.	t	h	th
	4	.	2		
	7	.	4	1	5
+	9	.	6	0	

	O	.	t	h	th
	0	.	0	5	2
	3	.	0	1	
+	5	.	0	8	

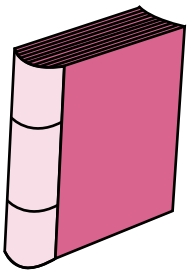
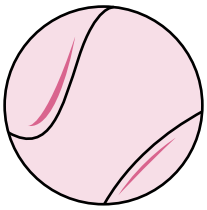
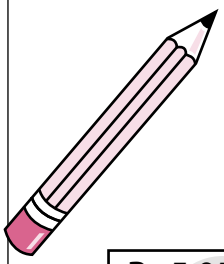
	O	.	t	h	th
	9	.	0	8	3
–	4	.	9	9	9

	O	.	t	h	th
	7	.	0	0	7
–	3	.	9	8	5

2. Solve the following.

a) 6.928 + 4.92 + 7.6	**b)** 1.22 + 3.753 + 427

3. Find the total price of the items.

 Rs 46.20	 Rs 20	 Rs 5.05	

4. Solve the following.

a) 15.153 – 15.098	**b)** 9.113 – 8.110

5.

Ahmed bought 4.25 kg of apples and 4.39 kg of strawberries. Which one has greater mass and how much?	

6.

Sonia has 8.5 m of blue ribbon, 14.25 m of yellow ribbon, and 7.855 m of red ribbon. What is the total length of all the ribbons?	

4.1 Decimal numbers

- **iv.** Multiply a 3-digit number up to 2 decimal places by 10, 100, and 1000
- **v.** Multiply a 3-digit number up to 2 decimal places by a whole number up to 2-digit
- **vi.** Multiply a 3-digit number up to 2 decimal places by a 3-digit number up to 2 decimal places.
- **vii.** Divide a 3-digit number up to 2 decimal places by 10, 100, and 1000
- **viii.** Divide a 3-digit numbers up to 2 decimal places by a whole number up to 2-digit.
- **ix.** Divide a 3-digit number up to 2 decimal places by a 2-digit number up to 1 decimal place
- **x.** Convert fractions to decimals using division.

1.

$8.9 \times 10 =$ ☐	$3.55 \times 100 =$ ☐	$7.253 \times 1000 =$ ☐

2.

$4.35 \times$ ☐ $= 43.5$	$5.135 \times$ ☐ $= 513.5$	$33.18 \times$ ☐ $= 33180$

3.

If thickness of a book is 0.75 cm. What will be the total height of 10, 100, and 1000 such books if they are piled upon each other.	

4. Find the product.

a) 3.62×73	**b)** 50.12×13	**c)** 9.19×48

d) 4.75×2.15	**e)** 8.90×7.23	**f)** 2.22×0.19

5.

If a group of people consume 3.25 kg of flour in one day, how much flour will be needed for 25 such groups?	

6.

Ahsan walks 5.72 km in one hour. How far would he walk in 3.5 hours?	

7. Solve:

a) 3.89 ÷ 100	**b)** 72.6 ÷ 10	**c)** 9.07 ÷ 1000

d) 9.36 ÷ 13	**e)** 35.1 ÷ 27	**f)** 5.06 ÷ 46

g) 2.72 ÷ 1.7	**h)** 7.7 ÷ 1.1	**i)** 4.95 ÷ 4.5

8. Convert the fractions to decimals.

a) $\frac{14}{100}$ =	**b)** $\frac{7}{100}$ =	**c)** $\frac{35}{1000}$ =
d) $\frac{135}{1000}$ =	**e)** $7\frac{27}{100}$ =	**f)** $\frac{654}{100}$ =
g) $\frac{45}{2}$ =	**h)** $\frac{7}{20}$ =	**i)** $\frac{55}{25}$ =
j) $\frac{78}{30}$ =	**k)** $\frac{54}{4}$ =	**l)** $\frac{157}{50}$ =

9. The volume of a cube is $17\frac{2}{5}$ cm^3. Write the volume in decimal.

10. Zeba buys 8 packets of potato chips for her sister's birthday party. If one packet of chips costs Rs 35 2/5, how much money does she spend? Give your answer in decimals.

11. Arsal needs $30\frac{3}{10}$ m fabric to make 6 banners. How much fabric will he need to make one banner?

12. The speed of a train is $150\frac{3}{4}$ km per hour. Write this speed in decimals.

4.2 Estimation

i. Round off a 4-digit number up to 3-decimal places to the nearest tenth or hundredth.

ii. Estimate sum or difference of the numbers (up to 4 digits).

4.3 Percentages

i. Recognise percentage as a special kind of fraction

ii. Convert percentage to fraction and to decimal number and vice versa (only for numbers without decimal part i.e. 35%, 75% etc.)

iii. Solve real life situations involving percentages

1. Round off the given decimals to

Decimal	to the nearest tenth	to the nearest hundredth
4.154		
0.595		
1.926		
7.008		

2. Round off the decimals to one and two decimal places.

Decimals	One decimal place	Two decimal places
3.832		
12.950		
72.015		
45.055		

3. **a)** Estimate the sum and the difference of the following numbers.

4.928 + 1.125 ≈ ☐	6.827 – 2.999 ≈ ☐	4.628 + 1.952 ≈ ☐

b) Ahad travelled 23.53 km by car and 10.7 km by a bus. Find the estimated total distance he travelled.

4.

a) Express in percentage		**b)** Express in decimals		**c)** Express in fractions	
$\frac{70}{100}$		13%		25%	
$\frac{35}{100}$		18%		95%	
$\frac{1}{100}$		52%		33%	
$\frac{50}{100}$		78%		85%	

5.

a) Convert into percentage				**b)** Convert into percentage			
$\frac{1}{20}$		$\frac{8}{25}$		0.09		0.66	
$\frac{3}{50}$		$\frac{14}{10}$		0.15		0.25	

c) Abid spent Rs 400 out of Rs 600. What percentage did he spend? Write your answer in fraction and decimal also.	

6. Choose the correct answers.

	A	**B**	**C**	**D**
a) $\frac{9}{20}$ as a percentage	180%	45%	9%	4.5%
b) 4.352×1000	43.52	435.2	4352	43520
c) $\frac{269}{100}$ as decimal fraction	26.9	269.0	2.69	0.269
d) 9.29% in fraction	$9\frac{29}{100}$	$9\frac{29}{10}\%$	$\frac{929}{1000}$	$92\frac{9}{100}$
e) $49.45 \div 10$	4.945	494.5	4945	49450

5.1 Distance

i. Convert measures given in
- kilometers to meters and vice versa
- meters to centimeters and vice versa
- Centimeters to millimeters and vice versa.

ii. Solve real life situations involving conversion, addition and subtraction of measures of distance

1 km	= 1000 m
1 m	= 100 cm
1 cm	= 10 mm

1 m	$= \frac{1}{1000}$ km
1 cm	$= \frac{1}{100}$ m
1 mm	$= \frac{1}{10}$ cm

1. Complete the conversion table.

15 m = ☐ cm	192 cm = ☐ km ☐ cm
3 m 35 cm = ☐ cm	450 cm = ☐ m ☐ cm
☐ km = 105000 m	8 km 50 m = ☐ km
☐ km ☐ m = 95169 m	76 km 33 m = ☐ cm
509 cm = ☐ mm	200 mm = ☐ cm
25 cm 8 mm = ☐ mm	☐ cm = 25 m ☐ 40 cm

2. Ahad lives 4 km 500 m away from Moosa's house in the east. Raheel lives 3 km 220 m away from Moosa's house in the west. What is the distance between Ahad's and Raheel's houses?

3. The height of a book shelf is 3 m. What is its height in millimetres?

4. The famous peaks K2 and Nanga Parbat are in Gilgit-Baltistan, Pakistan. Their heights are 8611 m and 8126 m respectively. Write their heights in kilometres and metres.

5. Areeba lives 4 km 217 m away from her school. The distance from Rabia's house to school is 400 m more than Areeba's house. How far is Rabia's house from school?

6. A bus travelled 105 km 335 m, then it travelled 35 km 970 m backwards. How far the bus is from its starting point?

7. The length of a leopard is 143 cm. Find its length in metres.

8.

a) 350 m + 8 km + 2 km 300m = ☐ m

b) 10 cm + 150 mm – 5 cm = ☐ mm

c) 12 km – 3 km 450 m + 4km = ☐ km ☐ m

d) 15 km + 900 m + 50 cm = ☐ cm

5.2 Time

i. Convert
- hours to minutes and vice versa
- minutes to seconds and vice versa

ii. Convert years to months and vice versa, months to days and vice versa, weeks to days and vice versa

1. Convert the following:

15 hr = ☐ min	180 min = ☐ hr
3 hr 30 min = ☐ min	320 min = ☐ hr ☐ min
12 hr ☐ min = 750 min	40 min = ☐ sec
☐ hr 15 min = 435 min	50 min 6 sec = ☐ sec
	69 sec = ☐ min ☐ sec

2. Solve:

a) 9 hr 32 min + 2 hr 59 min	**b)** 5 hr 10 min – 2 hr 45 min
c) 8 hr 35 min + 48 min	**d)** 11 hr 10 min – 37 min
e) 8 hr 33 min – 7 hr 56 min	**f)** 7hr + 3 hr 49 min

3.

Ahsan worked for 8 hours 20 minutes in a factory and 4 hours 45 minutes in a bookshop. How long did he work in total?	

4.

Atif is studying 6 hours 30 minutes daily for the preparation of annual examination. Previously, he was studying 3hours 45 minutes a day. How much more time is he giving to his studies now?	

5.

Bilal participated in a writing competition. He took 1200 seconds to complete the task. How many minutes did he take?	

6. Convert:

Years → Months	**Weeks → Days**	**Months → Days**
15 years = ☐	5 weeks = ☐	5 months = ☐
3 years = ☐	11 weeks = ☐	$4\frac{1}{2}$ months = ☐
20 years = ☐		8 months = ☐

Months → Years	**Days → Weeks**	**Days → Months**
25 months = ☐	35 days = ☐	150 days = ☐
6 months = ☐	42 days = ☐	90 days = ☐
30 months = ☐	84 days = ☐	45 days = ☐

7.	Dania stayed 3 weeks with her grandmother. During her stay she went to her friend's place for 6 days. How many days did she spend with her grandmother?	
8.	Ayan was 3 years 5 months old when joined the school. Now he is 12 years old. For how many months he has been to school?	
9.	How many days are there in 7 years?	

6.1 Unitary Method

- **i.** Calculate the value of many objects of the same kind when the value of one of these objects is given
- **ii.** Calculate the value of one object of the same kind when value of many of these objects are given
- **iii.** Calculate the value of many objects of the same kind when the value of some of these is given

1.

a) The cost of 8 books is Rs 320. What is the cost of one book? Rs ☐ What is the cost of 10 books? Rs ☐	**b)** The cost of 7 litres milk is Rs 1050. What is the cost of one litre? Rs ☐ What is the cost of 10 litres? Rs ☐
c) Three cows eat 15 kg of fodder. How much will one cow eat? ☐ kg How much will 13 cows eat? ☐ Kg	**d)** Aslam reads 250 pages in 5 days. How many pages will he read in one day? ☐ How many pages will he read in 17 gays? ☐

2.

A car requires 25 litres of petrol to travel 200 km. How many litres will be needed to travel 300.50 km?	

3.

Ahmed bought 8 packs of chocolates, each with 6 bars for Rs 960. What will be the cost of 30 bars of chocolate?	

4. Nine students collected equal amount and donated Rs 5409 to a welfare trust. How much amount would be collected by 15 students?

5.

a)

Pack of 6 Chocolate bars
Rs 720/pack

Cost of 14 bars
= Rs ☐

b)

Tea mugs
Rs 1500/ dozen

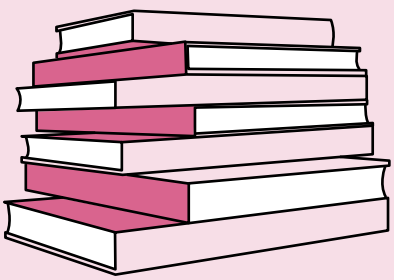
Cost of $1\frac{1}{2}$ dozens
= Rs ☐

c)

Pack of 10 soap bars
Rs 155.80/ pack

Cost of 15 bars
= Rs ☐

d)



Pile of 7 notebooks
Rs 966

Cost of $2\frac{1}{4}$ piles
= Rs ☐

7.1 Angles

- **i.** Recognise straight and reflex angle
- **ii.** Recognise the standard units for measuring angles is 1°, which is defined as 1/360 of a complete revolution.
- **iii.** Identify, describe and estimate the size of angles and classify them as acute, right or obtuse.
- **iv.** Compare angles with right angles and recognise that a straight line is equivalent to two right angles
- **v.** Use protractor and ruler to construct
  - A right angle
  - A straight angle
  - Reflex angles of different measures
- **vi.** Describe adjacent, complementary and supplementary angles

1. Fill in the blanks.

a) The standard unit for measuring angle is _____.

b) An acute angle is greater than _____ degree but less than _____ degree.

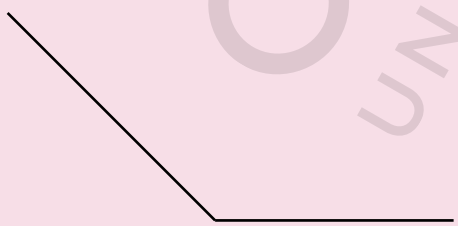
c) A reflex angle is greater than _____ and less than _____.

d) The measure of a straight angle is _____.

e) If two books are laid side by side They will make an angle of _____°.

2.

a)



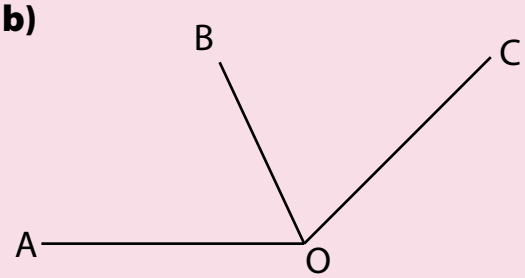
Estimate the size of angle.

_____

Name the angle.

_____

b)

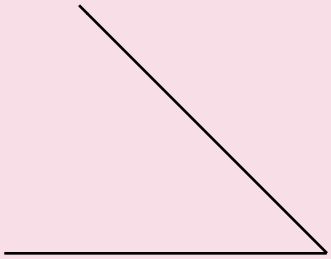


In ∠AOB and ∠BOC
O is the common _____.

OB is the common _____.

∠AOB and ∠BOC are _____ angles.

c)

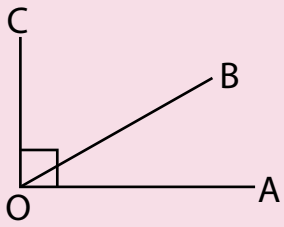


Estimate the size of angle. ☐

Name the angle.

☐

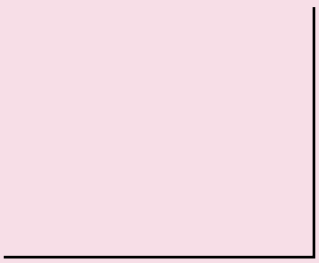
d)



∠AOB + ∠BOC = ☐

∠AOB and ∠BOC are ☐ angles.

e)

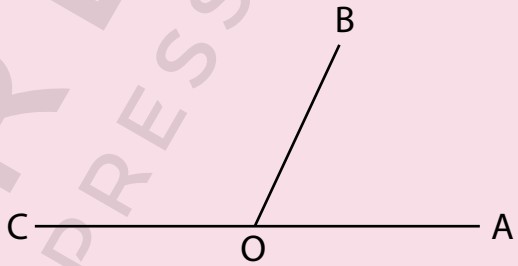


Estimate the size of angle. ☐

Name the angle.

☐

f)



∠ AOB +∠ BOC = 180°

∠ AOB and ∠ BOC are ☐ angles.

3. Draw the given angles using a protractor.

a) 50°	**b)** 78°
c) 123°	**d)** 225°

7.2 Triangles

i. Identify and describe triangles with respect to their sides. (isosceles, equilateral, and scalene)

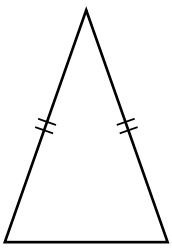
ii. Identify and describe triangles with respect to their angles. (Acute angled triangle, Obtuse angled triangle and right-angled triangles)

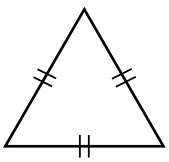
iii. Use protractor and ruler to construct a triangle when

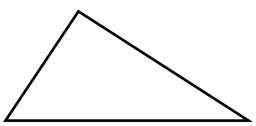
- two angles and their included side is given.
- two sides and included angle is given.

iv. Measure the lengths of the remaining two sides and one angle of the triangle.

1. Match the triangles with their correct names and describe them.



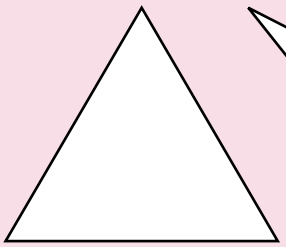




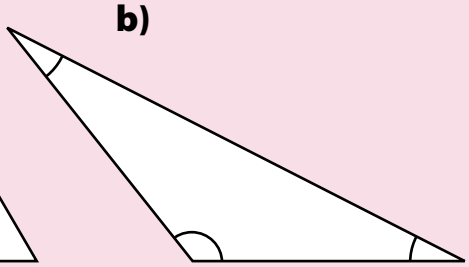
Triangle name	Description with respect to sides
Scalene	
Isosceles	
Equilateral	

2. Identify the triangles with respect to their angles.

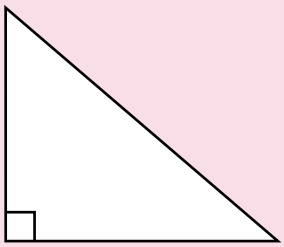
a)



b)



c)



3. Fill in the blanks.

a)	In an acute angled triangle all the angles are ☐ angles.
b)	In an obtuse angled triangle one angle is an ☐ angle.
c)	In a right-angled triangle one angle is a ☐ angle.

4. Construct the given triangles using protractor and ruler.

a) ΔPQR, where $m\overline{PQ} = 4.5$ cm $m\angle P = 70^\circ$ $m\angle Q = 35^\circ$	
b) ΔKLM, where $m\overline{KL} = 4.5$ cm $m\overline{LM} = 4$ cm $m\angle L = 53^\circ$	
c) ΔABC, where $m\angle B = 67^\circ$ $m\overline{AB} = 5.5$ cm $m\overline{BC} = 3$ cm	

5. Construct a ΔABC where, $m\overline{AB} = 3.5$ cm, $m\angle A = 35^\circ$ $m\angle B = 55^\circ$
Moreover, find $m\angle C$, $m\overline{BC}$, $m\overline{AC}$.

	$m\angle C =$ ☐
	$m\overline{BC} =$ ☐
	$m\overline{AC} =$ ☐

7.3 Quadrilaterals

- **i.** Recognise the kinds of quadrilateral (square, rectangle, parallelogram, rhombus, trapezium, and kite).
- **ii.** Identify and describe properties of quadrilaterals including square, rectangle, parallelogram, rhombus, trapezium, and kite, and classify those using parallel sides, equal sides and equal angles.
- **iii.** Use protractor and ruler to construct square and rectangle when lengths of sides are given.

1. Match the shapes with their names.

Rectangle Trapezium Kite Parallelogram Square Rhombus

2. Guess and draw me.

I have four right angles and all my sides are equal.	I am a quadrilateral having only one pair of parallel lines.	I am a quadrilateral with opposite sides equal and parallel. My opposite angles are equal but not 90°.	I am a quadrilateral. My two pairs of adjacent sides are equal. None of my angle is 90°.

3. Construct squares with the given sides. Use protractor and ruler.

3cm	4.7 cm	5cm	2.8 cm

4. Construct rectangles with the given measurements using protractor and ruler.

Length = 5 cm Breadth = 3 cm	Length = 4.5 cm Breadth = 2.5 cm

Length = 3.6 cm Breadth = 2.1 cm	Length = 5.5 cm Breadth = 3.7 cm

5. Name two square objects and two rectangular objects you see around.

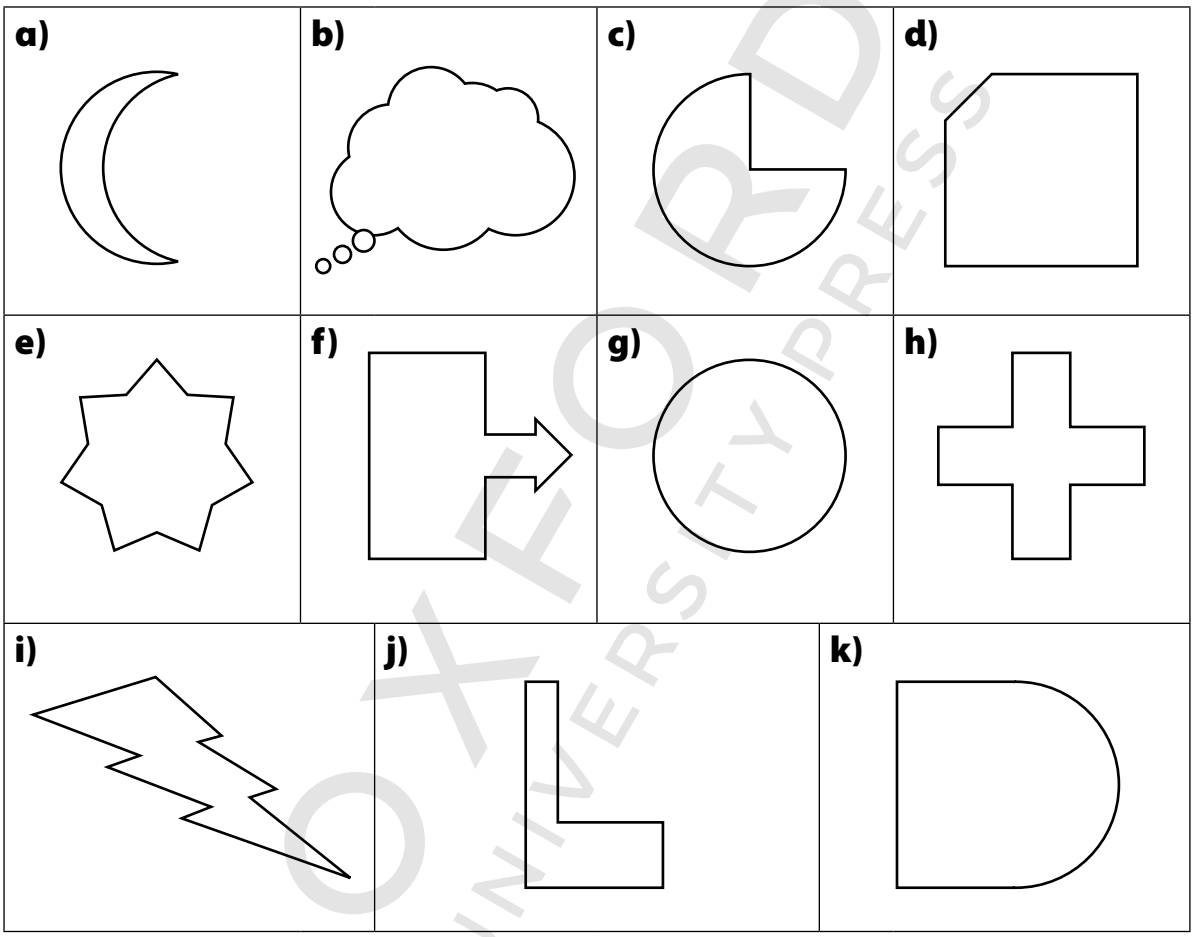
7.4 Symmetry

i. Recognise different types of symmetry (Reflective and Rotational) in 2-D figures.

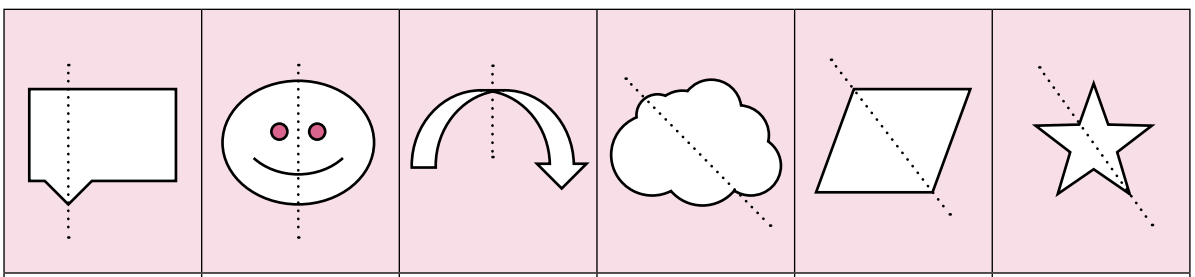
ii. Identify lines of symmetry for given 2-D figures

iii. Find point of rotation and order of rotational symmetry of given 2-D figures

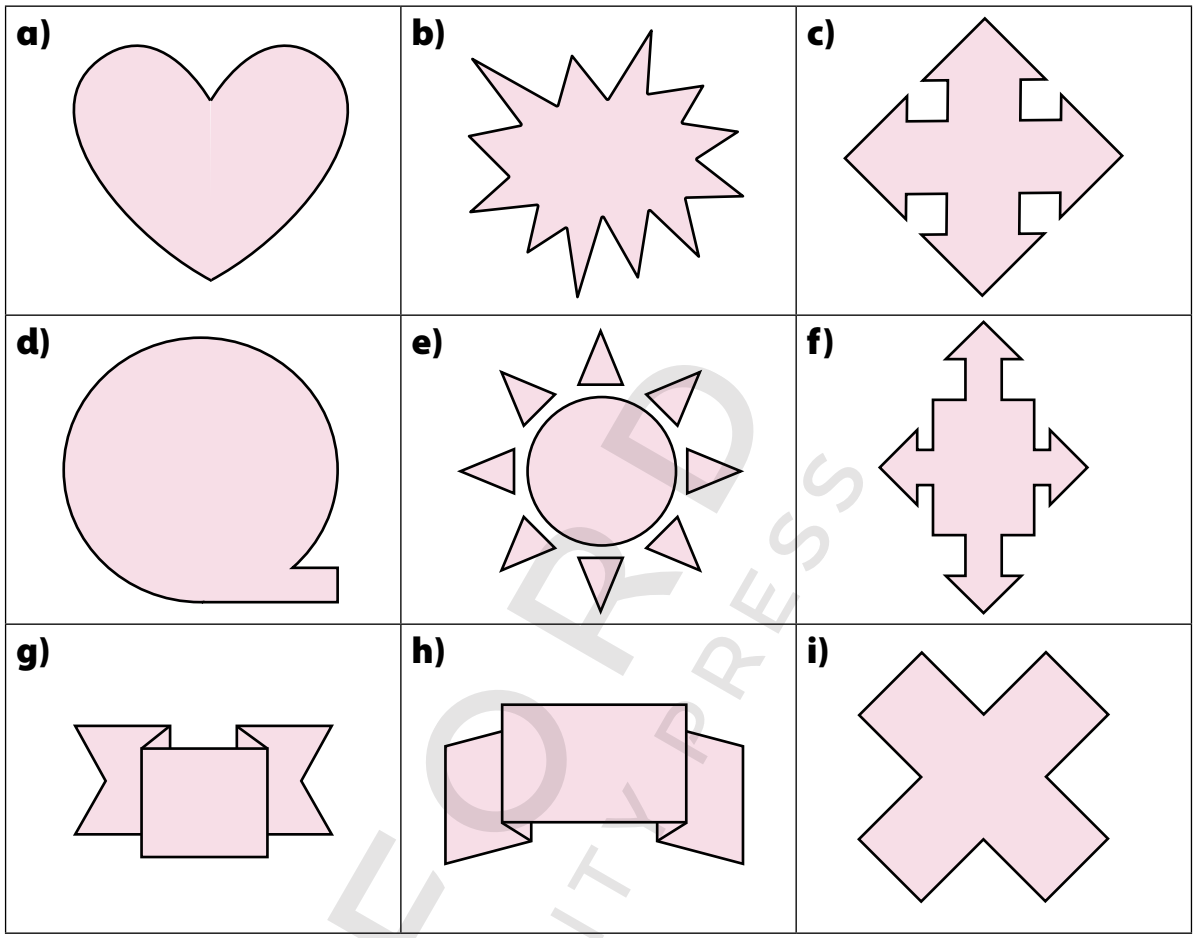
1. Which of the following figures have reflective symmetry?
Draw their lines of symmetry.



2. Which of the following lines of symmetry are correct?
Tick ✓ in the box below.



3. Identify and tick the figures which have rotational symmetry. Mark their centre of rotation and write the order of rotation.



4. Which of the following real-life objects are symmetrical? Which type of symmetry they have? Tick ✔ or cross ✘ in the columns.

Objects	Reflective symmetry	Rotational symmetry
A butterfly		
A leaf		
Mango		
Six petals flower		
Table mat		
Carrot		
Door		
The sun		
The rainbow		
A brick		
A bunch of grapes		

7.5 Three dimensional (3-D) Objects

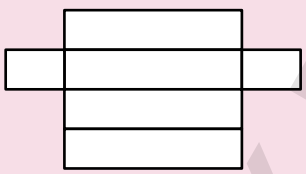
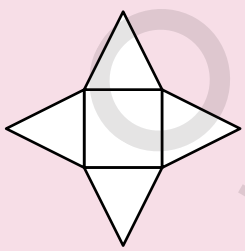
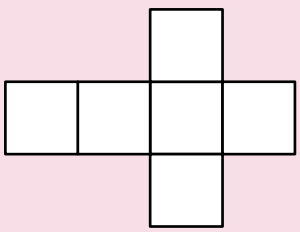
i. Identify cubes, cuboids and pyramids from their nets.

ii. Describe and make 3-D objects (cubes, cuboids, cylinder, cone, sphere, pyramids)

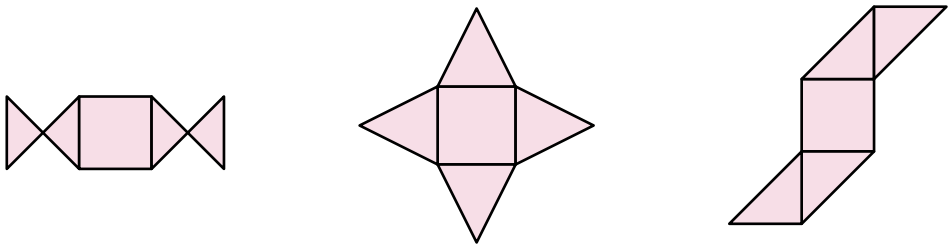
1. Write the number of faces and vertices for the given 3D shapes.

3D shapes	**Cube**	**Pyramid**	**Cuboid**
Number of faces			
Number of vertices			

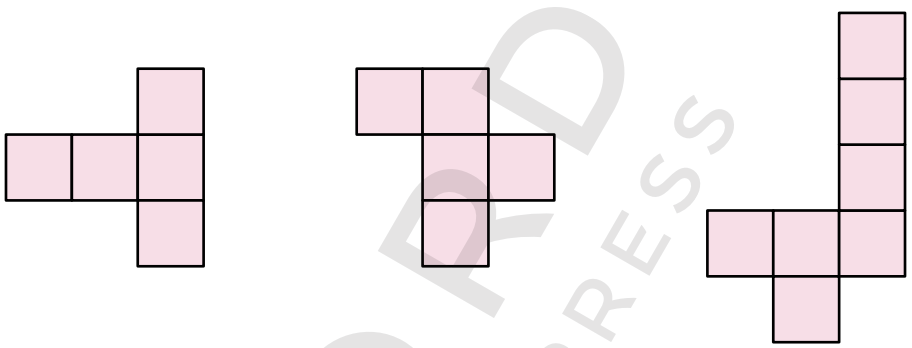
2. Look at the following nets of 3 D objects and write their name in the given box.

Net of the shape	**Name of the shape**
	
	
	

3. **a)** Which of the following nets represents a pyramid?



b) Which of the following is the net of a cube?

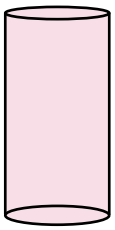
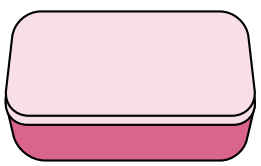
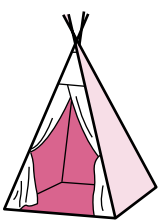


4. Draw two possible nets of a cuboid.

5. Describe the given 3D objects according to their faces and edges.

Objects	Description
Cylinder	
Cone	
Sphere	
Pyramid	
Cuboid	

6. Draw the following 3D shapes and match with real-life objects.

Name	Shapes	Real-life objects
Cone		
Cylinder		
Pyramid		
Sphere		
Cube		
Cuboid		

8.1 Perimeter and area

i. Differentiate between perimeter and area of a square and rectangular region.
ii. Identify the units for measurement of perimeter and area.
iii. Find and apply formulas to find perimeter and area of a square and rectangular region.

1. Tick the appropriate unit to measure the items.

	m	m^2	cm	cm^2
The length of a room				
The height of a tree				
The area of a ground				
The length of a straw				
The area of an envelope				
The height of a child				
The area of a house				
The area of a book				

The opposite sides of a rectangle are equal.

All the sides of a a square are equal.

2. Find the area and perimeter of the given rectangles and squares.

a)

15 cm

Perimeter =

Area =

b)

5 cm

10 cm

Perimeter =

Area =

c)

7 m

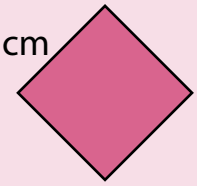
1 m

Perimeter =

Area =

d)

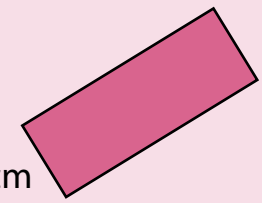
7.5 cm



Perimeter =

Area =

e)



3.2 cm

Perimeter =

Area =

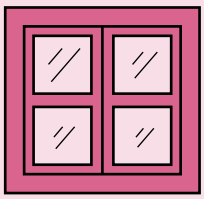
f)

2.2 cm

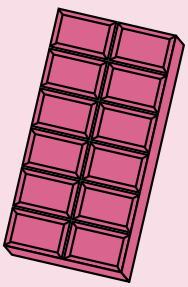
Perimeter =

Area =

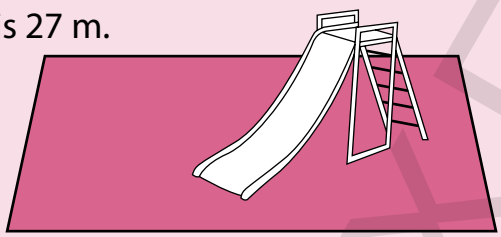
3. Find the area of a square window whose length is 43 cm.



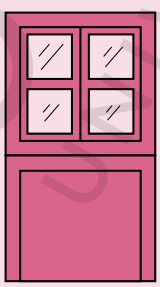
4. Find the perimeter of the chocolate bar whose length is 8 cm and breadth is 4 cm.



5. Find the area of the playground whose length is 60 m and breadth is 27 m.



6. Find the area of the door whose height is 1.8 m and breadth is 1.3 m.



7. Each side of a square is 13 cm. What will be its area?

8.	What is the area of a rectangle whose length = 5m and breadth = 2.4 m	
9.	The perimeter of a rectangle is 320 cm. If the length of the rectangle is 70 cm, find its breadth and area.	
10.	The area of a rectangle is 96 cm^2. If the breadth of the rectangle is 4 cm, find its length and perimeter.	
11.	How many tiles whose length and breadth are 13 cm and 7 cm respectively, are needed to cover a rectangular region whose length and breadth are 390 cm and 210 cm?	
12.	The length of a rectangular wooden board is thrice its width. If the width of the board is 120 cm, find the cost of framing it at the rate of Rs 20 per cm.	

9.1 Average

i. Find and describe average of given quantities in the data

ii. Solve real life situations involving average

$$\text{Average} = \frac{\text{Sum of quantities}}{\text{Number of quantities}}$$

1. Find the unknown and write in the boxes.

Numbers	Total	Average
a) 25, 35, 44, 52, and 38		
b) 18, 24, 29, and 32		
c) First 5 even numbers		
d) First five odd numbers		
e) 5.5, 5.7, 5.9, 6.1, and 6.3		
f) 234,280,345, 370, and 401		

2.

a) The goal scored by a team in 6 matches are 1, 2, 5, 3, 4, 0. Find the average score of the team.	**b)** Saif scored 75, 65, 55, 60 and 70 runs in 5 matches. What was the average score per match?

3.

The average height of a family of five is 147 cm. If the height of 4 family members is 152cm, 150cm, 148 cm and 156, find the height of the fifth member.	

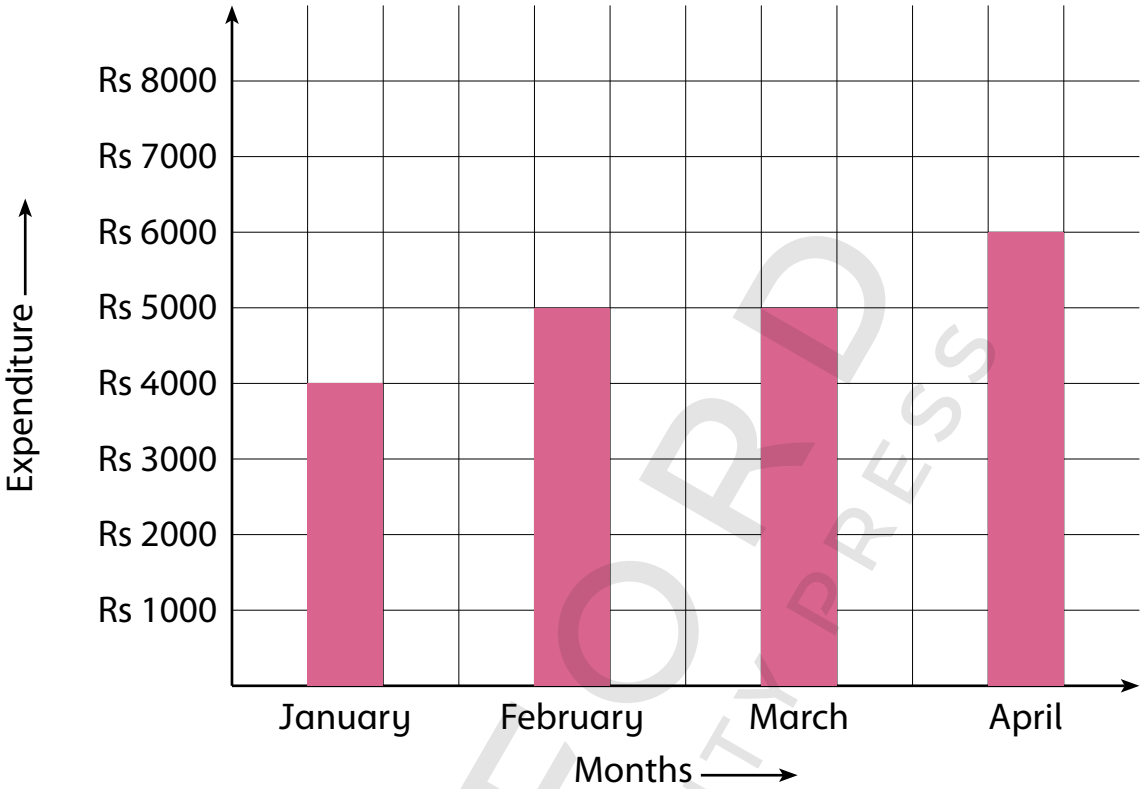
4. The average of a list of 6 numbers is 20. If one of the numbers is removed, the average of the remaining numbers becomes 15. What is the number that was removed?

5. There are 5 trees in Asif's garden. He measures each tree every month to find out how tall it has become and writes the measurement on a sheet of paper. The height of the trees are 98cm, 94cm, 41 cm, 96cm , and 11 cm. What is the average height of a tree?

6. After taking 3 competitions Ahad's average score is 72.5 out of 100. What must be his score in the next three competitions to increase his average to 78?

7. Abiha worked in a factory for 2 hours and earned Rs 150 per hour. Then, she took care of an old lady for3 hours and earned Rs 200 per hour. What was Abiha's average earning per hour for all 5 hours?

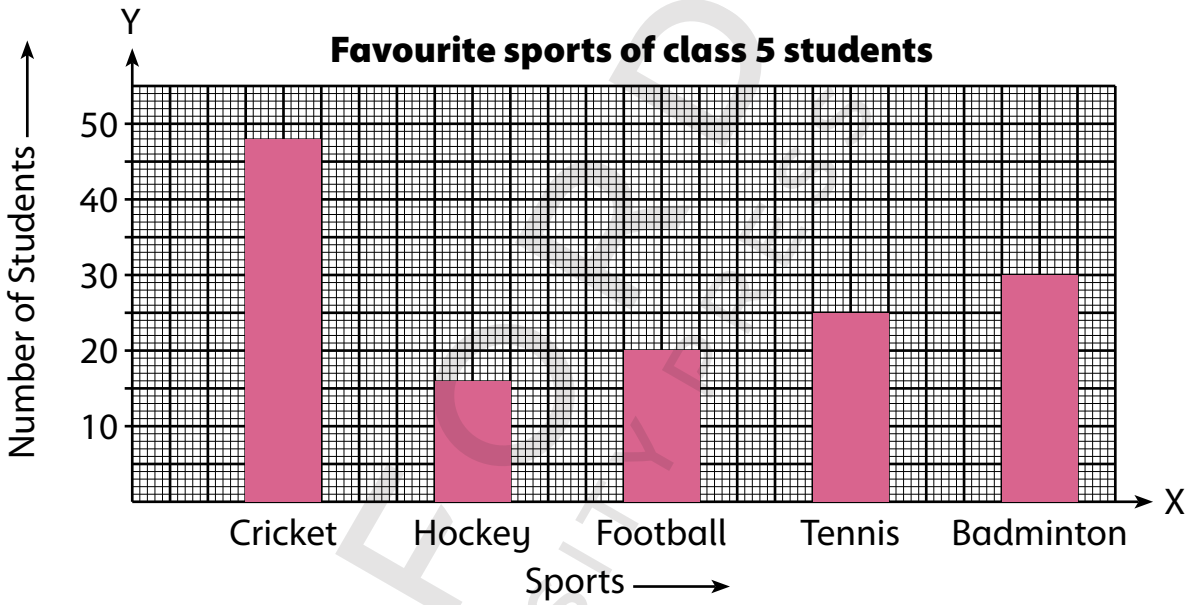
8. Following is a graph of monthly expenditure of a family for four months. Find the average expenditure of the family.



9.2 Bar Graphs

- **i.** Organise the given data using bar graph
- **ii.** Read and interpret a bar graph given in horizontal and vertical form
- **iii.** Draw horizontal and vertical bar graphs for given data
- **iv.** Solve real life situations using data presented in bar graphs.

1. Following is the graph of a survey of favourite sports of class 5 students. Study the graph carefully and answer the questions.



a) How many students like football? ☐

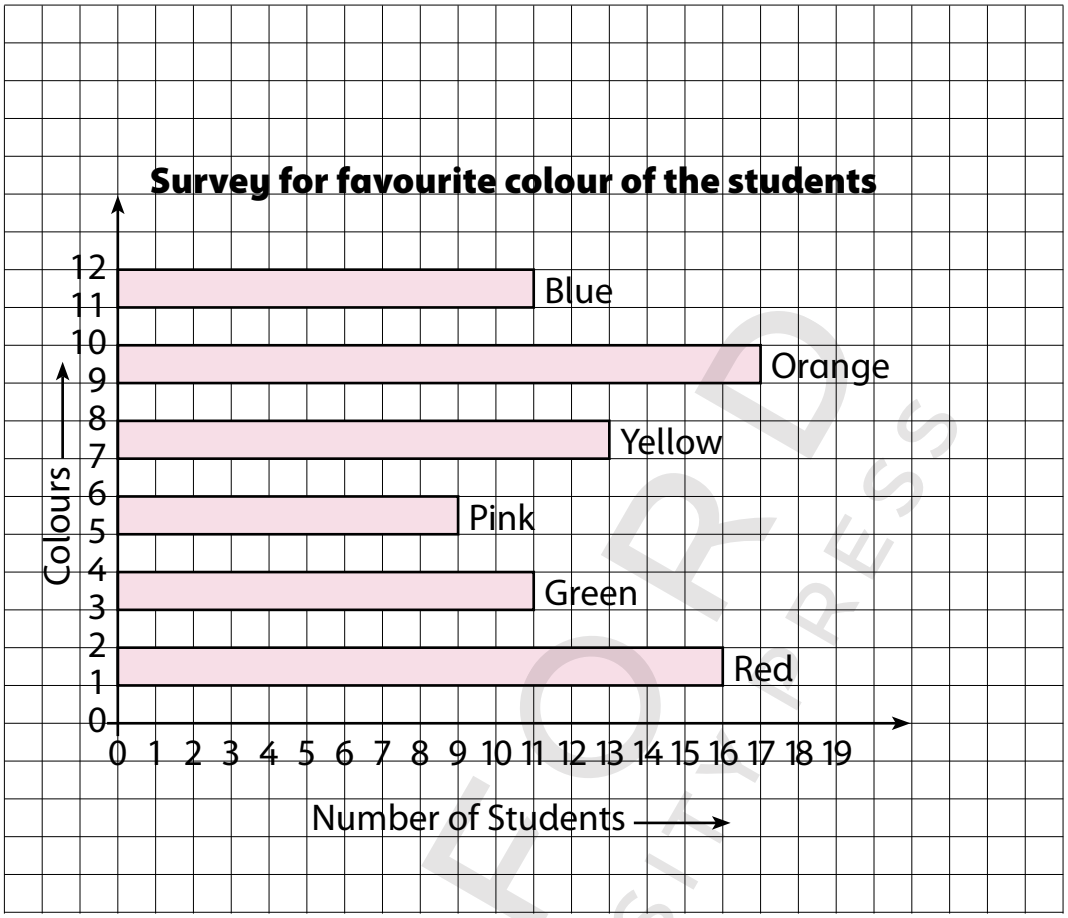
b) Is the number of students liking tennis is more than the students liking hockey? ☐

c) Which one is the most favourite sport? ☐

d) What is the total number of students who like hockey and tennis? ☐

e) How many students participated in the survey? ☐

2. Study the graph carefully and answer the questions.



a) Which colour is liked the most? _____

b) How many students like orange colour? _____

c) What is the total number of students who liked orange, yellow, and pink? _____

d) Do the most of the students liked blue colour? _____
How many are they? _____

e) Which two colours are liked by equal number of students? _____
What is the total numbers of these students? _____

f) Write the total number of students who took part in the survey. _____

3. The number of bed-sheets manufactured by a factory during five consecutive weeks is given

Weeks	First	Second	Third	Fourth	Fifth	Sixth
Number of bedsheets	600	450	520	500	600	630

Draw a vertical bar graph representing the above data.

4. The number of absentees in all the sections of class V was recorded in a week. Represent this data on a horizontal bar graph.

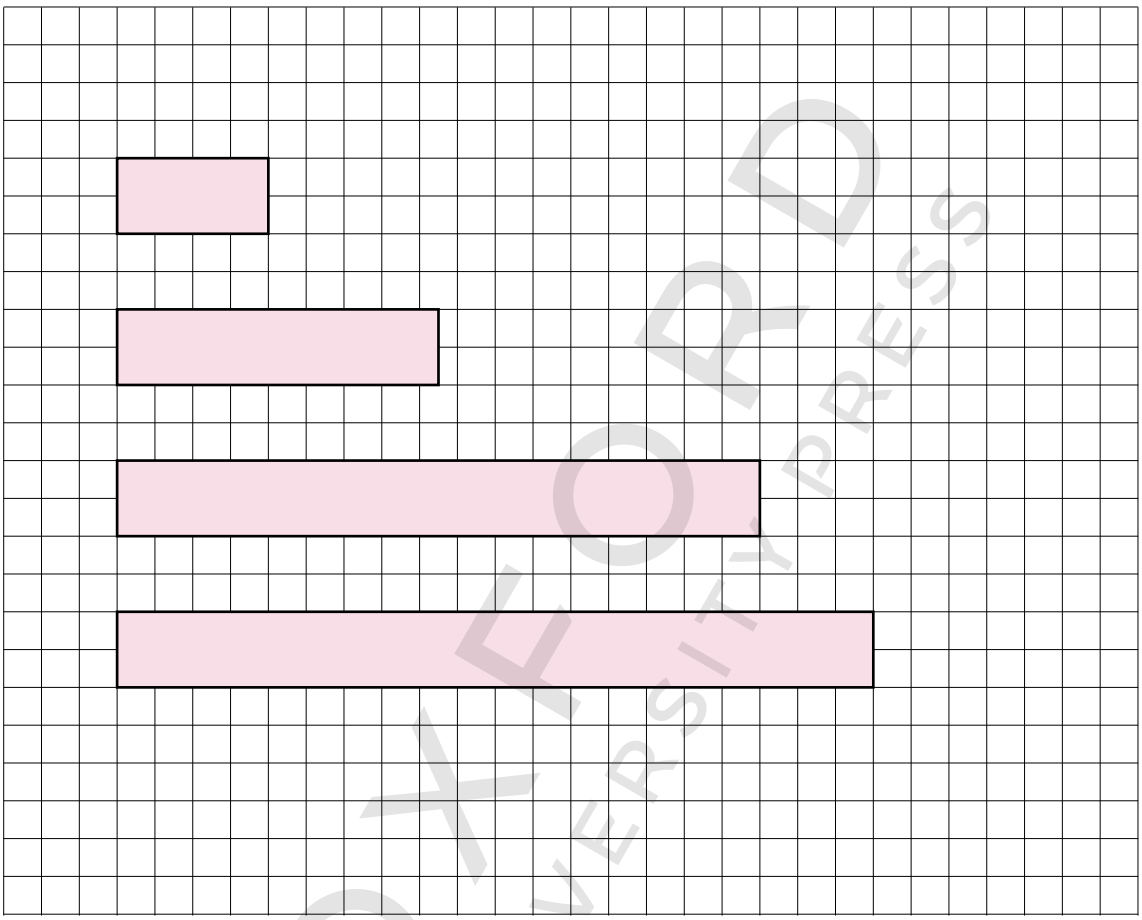
Days	Monday	Tuesday	Wednesday	Thursday	Friday
Number of absentees	36	45	48	24	38

a) On which day the maximum and minimum students were absent?

b) How many students were absent on Wednesday and Friday?

5. Below shown a horizontal bar graph representing the data of animals in a zoo. Complete the graph by writing the title, mentioning the X-axis and Y- axis. Also write the category on Y-axis and division of numbers on X-axis.

Animals	Zebra	Lion	Deer	Leopard
Number	17	4	20	8



6. Fill in the blanks.

a) In a bar graph the _____ of each bar is same.

b) Bar graphs can be drawn horizontally and _____.

c) On a graph paper vertical line is marked as _____.

d) On a graph paper horizontal line is marked as _____.

e) In a vertical bar graph X-axis is taken for _____ of the data.

f) In a horizontal bar graph X-axis is taken to label the _____ of the data.

Notes

Notes

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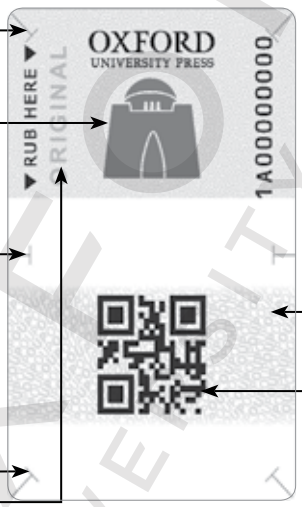

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