

MathStep

2

***Teacher's
Resource Book***

For Order : 0320-5899031

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Publisher



Chapter 1: The whole numbers up to 1000**Exercise 1.1****A. Count and Write**

a. $4+3+1= 431$

b. $2+2+4= 224$

c. $6+4+6= 646$

d. $1+5+2= 152$

e. $3+2+6= 326$

B. Count the beads and write in hundred, tens and ones

1. Five hundred + three tens + one = 531
2. Six hundred + four tens + two ones = 641
3. Seven hundred + five tens + three ones = 753
4. Three hundred + three tens + one = 331
5. Four hundred + eight tens + seven ones = 487
6. Seven hundred + five tens + four ones = 754

C. Write the numbers in expanded form

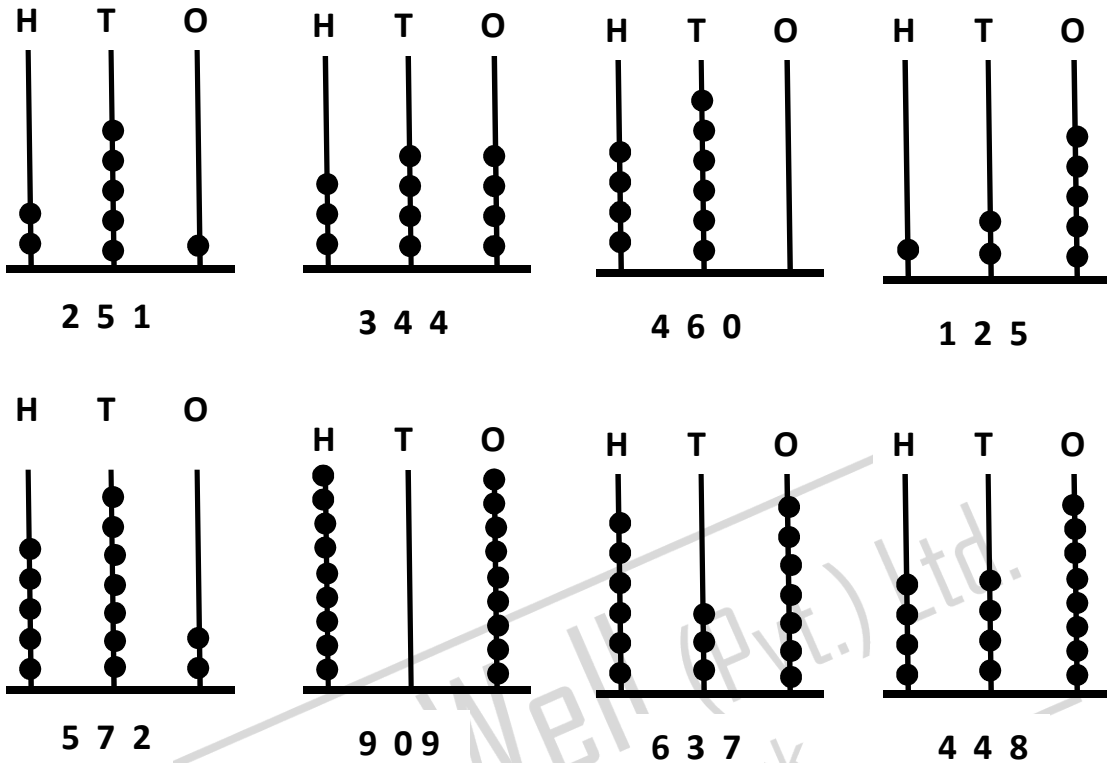
1. $200 + 10 + 8$
2. $300 + 20 + 2$
3. $400 + 60 + 0$

D. Write in hundreds, tens and one.

1. 112 = one hundreds, one tens, two ones
2. 254 = two hundreds, five tens, four ones
3. 382 = three hundreds, eight tens, two one
4. 619 = six hundreds, one ten, nine ones
5. 744 = seven hundreds, four tens, four ones
6. 833 = eight hundreds, three tens, three ones
7. 847 = eight hundreds, four tens, seven ones
8. 999 = nine hundreds, nine tens, nine ones
9. 408 = four hundreds, zero ten, eight ones
10. 674 = six hundreds, seven tens, four ones



E. Draw the beads on the abacus



Exercise 1.2

A. Fill in the blanks (in expanded form).

- Three hundred + 8 tens + 2 ones
 $300 + 80 + 2$
- Four hundred + 5 tens + 3 ones
 $400 + 50 + 3$
- Seven hundreds + 8 tens + 5 ones
 $700 + 80 + 5$
- One hundred + 5 tens + 8 ones
 $100 + 50 + 8$
- Two hundred + 7 tens + 7 ones
 $200 + 70 + 7$
- Six hundred + 4 tens + 6 ones
 $600 + 40 + 6$



B. Write in numbers

- 3 hundred, 5 tens and one ones = 351
- 6 hundred, 4 tens and 5 ones = 645
- 8 hundred, 9 tens and 6 ones = 896
- 7 hundred, 3 tens and 2 ones = 732
- 4 hundred, 2 tens and 4 ones = 424

C. Write in words

- 372 three hundreds, seven tens, two ones
- 412 four hundreds, one ten, two ones
- 539 five hundreds, three tens, nine ones
- 482 four hundred, eight tens, two ones
- 641 six hundreds, four tens, one

D. Write in expanded form

- | | Hundreds | + | Tens | + | Ones |
|----------|------------|---|-----------|---|----------|
| 1. 333 = | <u>300</u> | + | <u>30</u> | + | <u>3</u> |
| 2. 702 = | <u>700</u> | + | <u>0</u> | + | <u>2</u> |
| 3. 412 = | <u>400</u> | + | <u>10</u> | + | <u>2</u> |
| 4. 576 = | <u>500</u> | + | <u>70</u> | + | <u>6</u> |
| 5. 698 = | <u>600</u> | + | <u>90</u> | + | <u>8</u> |

E. Give the number that is

- 1 more than 632 = 633
- 1 less than 598 = 597
- 2 more than 540 = 542
- 2 less than 577 = 575
- 5 more than 300 = 305
- 3 less than 197 = 194

Exercise 1.3**A. Write the skipped numbers.**

- 200 300 400 500 600 700 800 900 1000
- 110 120 130 140 150 170 180 190 200 210 220



3. 750 760 770 780 790 800 810 820 830 850 860 870 880 890 900
4. 315 415 515 615 715 815 915 1015 1115 1215 1315 1415
5. 501 511 521 531 541 551 561 571 581 591 601 611 621

B. Write the numbers in tens that comes.

	Before		After		In between		
1.	<u>332</u>	333	580	<u>581</u>	170	<u>180</u>	190
2.	<u>489</u>	490	620	<u>621</u>	330	<u>340</u>	350
3.	<u>729</u>	730	440	<u>441</u>	260	<u>270</u>	280
4.	<u>524</u>	525	701	<u>702</u>	777	<u>888</u>	999
5.	<u>120</u>	121	221	<u>222</u>	321	_____	322

C. Write the next five numbers. Skip 10s.

1. 620 630 640 650 660 670
2. 850 860 870 880 890 900
3. 900 910 920 930 940 950
4. 400 410 420 430 440 450
5. 350 360 370 380 390 400

D. Tick the (biggest) number and cross the {smallest} number in each line. (biggest in () brackets, smallest in { } brackets)

1. 992 (**999**) { **918** } 974 960 936
2. 840 { **815** } (**896**) 832 870 820
3. 714 723 { **708** } 775 711 (**760**)
4. 614 623 { **608** } (**675**) 611 660
5. 720 729 718 (**765**) { **700** } 758

E. Count in 10s and write forward.

H T O

1. 5 2 5 535 545 555 565 575
2. 6 3 2 642 652 662 672 682
3. 7 1 4 724 734 744 754 764
4. 4 4 4 454 464 474 484 494
5. 3 0 0 310 320 330 340 350



F. Count in 10s and write backwards.

H T O

1. 5 1 0 500 490 480 470 460
2. 4 5 0 440 430 420 410 400
3. 3 8 2 372 362 352 342 332
4. 2 8 0 270 260 250 240 230
5. 7 0 0 690 680 670 660 650

Exercise 1.4**A. Put greater than (>) or lesser than (<) sign where appropriate.**

1. 342 < 540
2. 137 < 334
3. 802 > 788
4. 669 > 560
5. 220 > 110
6. 457 > 358

B. State whether the following number sentences are TRUE or FALSE

1. true
2. false
3. true
4. true
5. false

Exercise 1.5**A. Write the following numbers in Ascending Order.**

1. 5, 62, 68, 70, 72, 65
2. 62, 70, 75, 82, 99
3. 18, 25, 33, 42, 48
4. 97, 102, 110, 113, 119
5. 35, 47, 50, 54, 65
6. 20, 30, 40, 44, 45
7. 10, 20, 25, 30, 40
8. 20, 30, 40, 60, 90

B. Write the following numbers in Descending Order.

1. 560, 555, 550, 542, 538
2. 652, 644, 630, 628, 614



3. 456, 448, 432, 419, 416
4. 546, 535, 528, 513, 502
5. 728, 720, 714, 706, 700
6. 600, 333, 200, 190, 188

C. Look at these numbers carefully. Answer whether they are in ascending or descending order.

1. ascending
2. ascending
3. descending
4. ascending
5. descending
6. ascending

Exercise 1.6

A: Identify Odd and Even numbers

1. **Circle all the odd numbers in each line.**
 - a. 71, 13, 17
 - b. 53, 99, 11, 39
2. **Circle all the even numbers in each line.**
 - a. 14, 44, 26, 28, 30
 - b. 20, 26, 48, 12
3. **Circle the greatest even number in each line.**
 - a. 88
 - b. 210
4. **Circle the smallest odd number in each line.**
 - a. 9
 - b. 11

End-of-Chapter Exercises

A: Answer the following questions

1. 98
2. 11
3. Even
4. Even
5. Even
6. Odd



B: Circle all the even numbers below.

122 8 930 82 54 994

C: Place a square around all the odd numbers below

77 123

D: Count to 16 by 2s.

2, 4, 6, 8, 10, 12, 14, 16

E: Fill in the missing numbers.

21, **22, 23, 24**, 25, 26, 27, 28, 29

F: Convert 9 hundreds + 4 tens + 6 ones to a number

946

G: Complete the statement below:

561 = 5 hundreds + 6 tens + 1 ones

H: Label each number as odd or even.

- a. 374 even
- b. 21 odd
- c. 192 even

I: Count to 20

- a. By 2s = 2, 4, 6, 8, 10, 12, 14, 16, 18, 20
- b. By 4s = 4, 8, 12, 16, 20

J: Count to 50.

- a. By 5s = 5, 10, 15, 20, 25, 30, 35, 40, 45, 50
- b. By 10s = 10, 20, 30, 40, 50

K: Select the correct answer(s) from the given options:

- | | |
|------|------|
| 1. c | 5. a |
| 2. b | 6. d |
| 3. b | 7. b |
| 4. c | 8. c |

L: Write with the numbers:

- a. 267
- b. 98

M: Skip-count by tens:

568, 578, 588, 598, 608, 618, 628



N: Compare the expressions and write $<$, $>$, or $=$ in the circle.

a. $48 < 84$

b. $48 < 50$

c. $36 = 36$

O: Put the numbers in order:

a. $16 < 26 < 61$

b. $14 < 51 < 54$

P: Put the numbers in order:

Colour these numbers 'Yellow'

Odd Numbers: 31, 45, 17, 27, 35, 41, 21, 39, 7, 23, 3, 11, 25, 5, 17, 1, 43, 15

Colour these numbers 'Orange'

Even Numbers: 12, 24, 50, 8, 16, 2, 14, 44, 10, 48, 34, 26, 32

Chapter 2: Addition and Subtraction of Whole Numbers up to 1000

Exercise 2.1

A. Add these sums

(from left to right)

H	T	O	H	T	O	H	T	O	H	T	O				
2	5	4	3	2	0	1	5	5	5	2	1				
+	4	2	1	+	4	0	5	+	2	1	2	+	3	4	5
<hr/>			<hr/>			<hr/>			<hr/>						
6	7	5	7	2	5	3	6	7	8	6	6				
<hr/>			<hr/>			<hr/>			<hr/>						

H	T	O	H	T	O	H	T	O	H	T	O				
3	2	4	2	1	6	7	5	3	6	4	2				
+	2	0	3	+	7	2	3	+	2	4	1	+	3	1	0
<hr/>			<hr/>			<hr/>			<hr/>						
5	2	7	9	3	9	9	9	4	9	5	2				
<hr/>			<hr/>			<hr/>			<hr/>						



$\begin{array}{r} \text{H T O} \\ 425 \\ + 212 \\ \hline 637 \end{array}$	$\begin{array}{r} \text{H T O} \\ 320 \\ + 504 \\ \hline 824 \end{array}$	$\begin{array}{r} \text{H T O} \\ 463 \\ + 213 \\ \hline 676 \end{array}$	$\begin{array}{r} \text{H T O} \\ 214 \\ + 543 \\ \hline 757 \end{array}$
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Exercise 2.2

A. Solve these numbers:

$\begin{array}{r} \text{H T O} \\ ^{17} 429 \\ + 674 \\ \hline 1403 \end{array}$	$\begin{array}{r} \text{H T O} \\ 654 \\ + 505 \\ \hline 1159 \end{array}$	$\begin{array}{r} \text{H T O} \\ 3^{15} 8 \\ + 835 \\ \hline 1193 \end{array}$	$\begin{array}{r} \text{H T O} \\ 521 \\ + 345 \\ \hline 866 \end{array}$
--	--	---	---

$\begin{array}{r} \text{H T O} \\ 423 \\ + 251 \\ \hline 674 \end{array}$	$\begin{array}{r} \text{H T O} \\ 221 \\ + 330 \\ \hline 551 \end{array}$	$\begin{array}{r} \text{H T O} \\ 727 \\ + 041 \\ \hline 768 \end{array}$	$\begin{array}{r} \text{H T O} \\ 321 \\ + 245 \\ \hline 566 \end{array}$
---	---	---	---

B. Solve these large numbers:

$\begin{array}{r} \text{H T O} \\ 4^{11} 2 \\ 506 \\ + 23 \\ \hline 941 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^{14} 91 \\ 222 \\ + 111 \\ \hline 824 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^{14} ^{17} 8 \\ 462 \\ + 59 \\ \hline 999 \end{array}$	$\begin{array}{r} \text{H T O} \\ 6^{14} 3 \\ 718 \\ + 20 \\ \hline 1381 \end{array}$
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Exercise 2.3

Subtract the following sums:

(from left to right)

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Exercise 2.4

A. Solve the following:

- a. $91 + 125 + 51 = 267$
- b. $214 + 113 + 222 + 9 = 558$
- c. $118 - 111 = 7$
- d. $336 - 224 = 112$
- e. $250 - 130 = 120$
- f. $80 - 53 = 27$
- g. $45 - 28 = 17$



B. Read carefully and answer each question. Show your work in your notebook.

Packs of cupcakes	1	2	2
Packs of noodles	+1	8	4
Total packs	3	0	6

Large fish	1	0	0
Small fish	+1	8	1
Total fish	2	8	1

Read pages yesterday	3	5	6
Read pages today	+1	3	3
Total pages read	4	8	9

Boys	5	3	0
Girls	+3	2	0
Total students	8	5	0

Razia's balloons	2	4	5
Sania's balloons	+3	6	0
Total balloons	6	0	5

C. Read and answer. Show your work in your note book.

Mrs. Naeem wants to have	1	6	2
She has now	+1	2	2
More cats she needs		4	0

Mrs. Naeem wants to have	1	6	2
She has now	-1	2	2
More cats she needs		4	0



Zoya has roses	6	1	8
Kiran has	- 1	3	4
More cats she needs	4	8	4
<hr/>			
Total fishes	1	1	2
Fish died	-	7	0
Fishes left	4	2	
<hr/>			
Backed cupcakes	2	5	4
Sale per day	- 2	4	0
Cupcakes left	1	4	
<hr/>			

Exercise 2.5

A. Find the sums

- | | |
|--------|---------|
| 1. 14 | 9. 53 |
| 2. 5 | 10. 214 |
| 3. 4 | 11. 20 |
| 4. 0 | 12. 446 |
| 5. 380 | 13. 26 |
| 6. 670 | 14. 316 |
| 7. 7 | 15. 302 |
| 8. 790 | 16. 325 |

Doing Mental Math – Exercises Subtracting (with re-grouping)

B. Find the difference:

- | | |
|--------|---------|
| 1. 520 | 12. 720 |
| 2. 968 | 13. 61 |
| 3. 211 | 14. 629 |
| 4. 924 | 15. 608 |
| 5. 682 | 16. 854 |
| 6. 609 | 17. 942 |
| 7. 463 | 18. 593 |



- | | |
|---------|---------|
| 8. 330 | 19. 872 |
| 9. 336 | 20. 462 |
| 10. 406 | 21. 713 |
| 11. 467 | 22. 780 |

C. Give the answers.

- | | |
|--------|---------|
| 1. 105 | 9. 182 |
| 2. 123 | 10. 361 |
| 3. 901 | 11. 268 |
| 4. 751 | 12. 167 |
| 5. 774 | 13. 181 |
| 6. 192 | 14. 181 |
| 7. 121 | 15. 181 |
| 8. 151 | 16. 277 |

Subtracting (with re-grouping)

D. Fill in the blanks

- | | |
|---------|---------|
| 1. 620 | 13. 102 |
| 2. 536 | 14. 83 |
| 3. 440 | 15. 112 |
| 4. 201 | 16. 159 |
| 5. 790 | 17. 140 |
| 6. 430 | 18. 101 |
| 7. 223 | 19. 90 |
| 8. 983 | 20. 79 |
| 9. 120 | 21. 1 |
| 10. 327 | 22. 100 |
| 11. 1 | 23. 45 |
| 12. 993 | 24. 56 |



End-of-Chapter Exercises

A: Solve the following Word Problems.

1. $114 + 21 = 135$
2. $142 - 29 = 113$
3. $74 - 25 = 49$
4. $41 + 38 = 79$
5. $25 - 8 = 7$

6. $50 + 12 = 62$
7. $25 + 16 + 20 = 61$
8. $86 - 64 = 22$
9. $90 - 67 = 23$
10. $65 - 35 = 30$

B: Write either + or – in the box to make each problem correct:

- | | |
|------|------|
| a. - | g. - |
| b. - | h. + |
| c. + | i. + |
| d. + | j. - |
| e. - | k. - |
| f. - | l. - |

C: True or False

$4+3=12$ (colour red)	$2=3-1$ (colour green)	$2+2=5$ (colour red)
$7=6$ (colour red)	$9-6=3$ (colour green)	$13=6+7$ (colour green)
$1=10-10$ (colour red)	$9=9$ (colour green)	$1+1+1=3$ (colour green)
$9=10$ (colour red)	$2=1+1$ (colour green)	$2+1+1=5$ (colour red)
$11=5+6$ (colour green)	$4+2=7$ (colour red)	$6-1=7$ (colour red)
$12=6-6$ (colour red)	$4=4$ (colour green)	$10-3=13$ (colour red)

Chapter 3 Money

Exercise 3.1

A: Tick on the smaller amount of Money

Note. Smaller amounts are in bold.

1) Rs.100 or **Rs. 50**

2) Rs. 60 or **Rs. 50**

3) Rs. 52 or **Rs. 50**

4) **Rs. 45** or Rs. 100



B: Tick on the greater amount of Money

Note. greater amounts are in bold.

a Rs. 750 or **Rs. 800**

b Rs. 345 or **Rs. 400**

c Rs. 902 or **Rs. 990**

C: Look and answer carefully

i. Chips

ii. Rice Pack

iii. Chips, Dictionary, Sugar Pack, Rice Pack

D: Fill in the Blanks

A. 5 notes

B. 100 Rupee

C. 500 Rupee

End of Chapter Exercises

- One packet of juice cost = 18 rupees
Five packets cost = $18 \times 5 = 90$ rupees
- One carton of eggs cost = 90 rupees
Four cartons cost = $90 \times 4 = 360$ rupees
- Eman has:
One note of rupees = 500
Fifty notes of Rs. 1 = $(50 \times 1) = 50$
Two coins of Rs.5 = $(2 \times 5) = 10$
Total amount she has = $500 + 50 + 10 = 560$
- A packet of colour pencil cost = 50
Eight packets cost = $50 \times 8 = 400$
- Number of children = 8
Total amount they have = 800
Each child have = $800 \div 10 = 80$
- Cost of one pair of socks = 28
Cost of 7 pairs = $28 \times 7 = 196$



7. Asif has total amount of Rs. = 300
He spends Rs. = 240
Amount left with Asif = $300 - 240 = 60$
8. Cost of one teddy bear is Rs. = 228
Cost of 8 teddy bears is Rs. = $228 \times 8 = 1824$

Chapter 4 Geometry

Exercise 4.1

A: What are the names of these shapes?

1. Square
2. Triangle
3. Circle
4. Hexagon
5. Octagon
6. Pentagon

B: Do as Directed

- To be answered by the students themselves.

C: Write the name of given 3-D shapes and learn their properties.

1. Cube
2. Cylinder
3. Cuboid
4. Sphere
5. Cone

D: Colour the 3-D shapes

- To be answered by the students themselves.

Exercise 4.2

A. Look at this picture carefully and count its faces, edges and vertices.

Faces: 6 Faces

Edges: 12 Edges

Vertices : 8 Vertices



B: Colour the 2-D shapes Blue and 3-D Shapes Red

- To be answered by the students themselves

Exercise 4.3

Complete the pattern by coloring the shapes

To be answered by the students themselves

End of the Chapter Exercises

A: Draw straight line of the following length

- 5 cm

- 7 cm

- 8 cm

- 6 cm

- 9 cm

B: Identify the close curve and open curve

Row 1:

All shapes are close curve.

Row 2: (from left to right)

1st close 2nd open 3rd close 4th close

Row 3: (from left to right)

1st open 2nd close 3rd open 4th close

Row 4: (from left to right)

1st close 2nd close 3rd open 4th close



Chapter 5 Multiplication

Exercise 5.1

A Now complete these. (Order property)

- | | |
|-------|-------|
| A. 10 | F. 40 |
| B. 27 | G. 18 |
| C. 32 | H. 90 |
| D. 42 | I. 45 |
| E. 72 | J. 90 |

B Now complete these. (Order property)

In all 0 will be the answer.

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- | | | |
|---------------------|--------------------------------|--------------------|
| $1 \times 6 =$ | One Times Six is Six | $1 \times 6 = 6$ |
| $2 \times 6 =$ ___ | Two Times Six is Twelve | $2 \times 6 = 12$ |
| $3 \times 6 =$ ___ | Three times Six is Eighteen | $3 \times 6 = 18$ |
| $4 \times 6 =$ ___ | Four times Six is Twenty Four | $4 \times 6 = 24$ |
| $5 \times 6 =$ ___ | Five times Six is Thirty | $5 \times 6 = 30$ |
| $6 \times 6 =$ ___ | Six times Six is Thirty Six | $6 \times 6 = 36$ |
| $7 \times 6 =$ ___ | Seven times Six is Forty Two | $7 \times 6 = 42$ |
| $8 \times 6 =$ ___ | Eight times Six is Forty Eight | $8 \times 6 = 48$ |
| $9 \times 6 =$ ___ | Nine times Six is Fifty Four | $9 \times 6 = 54$ |
| $10 \times 6 =$ ___ | Ten times Six is Sixty | $10 \times 6 = 60$ |

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- | | | |
|----------------|----------------------------------|-------------------|
| $1 \times 7 =$ | One Times Seven is Seven | $1 \times 7 = 7$ |
| $2 \times 7 =$ | Two Times Seven is Fourteen | $2 \times 7 = 14$ |
| $3 \times 7 =$ | Three times Seven is Twenty One | $3 \times 7 = 21$ |
| $4 \times 7 =$ | Four times Seven is Twenty Eight | $4 \times 7 = 28$ |
| $5 \times 7 =$ | Five times Seven is Thirty Five | $5 \times 7 = 35$ |
| $6 \times 7 =$ | Six times Seven is Forty Two | $6 \times 7 = 42$ |
| $7 \times 7 =$ | Seven times Seven is Forty Nine | $7 \times 7 = 49$ |
| $8 \times 7 =$ | Eight times Seven is Fifty Six | $8 \times 7 = 56$ |



$$9 \times 7 = \text{Nine times Seven is Sixty Three} \quad 9 \times 7 = 63$$

$$10 \times 7 = \text{Ten times Seven is Seventy} \quad 10 \times 7 = 70$$

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$$1 \times 8 = \text{One Times Eight is Eight} \quad 1 \times 8 = 8$$

$$2 \times 8 = \text{Two Times Eight is Sixteen} \quad 2 \times 8 = 16$$

$$3 \times 8 = \text{Three Times Eight is Twenty Four} \quad 3 \times 8 = 24$$

$$4 \times 8 = \text{Four Times Eight is Thirty Two} \quad 4 \times 8 = 32$$

$$5 \times 8 = \text{Five Times Eight is Forty} \quad 5 \times 8 = 40$$

$$6 \times 8 = \text{Six Times Eight is Forty Eight} \quad 6 \times 8 = 48$$

$$7 \times 8 = \text{Seven Times Eight is Fifty Six} \quad 7 \times 8 = 56$$

$$8 \times 8 = \text{Eight Times Eight is Sixty Four} \quad 8 \times 8 = 64$$

$$9 \times 8 = \text{Nine Times Eight is Seventy Two} \quad 9 \times 8 = 72$$

$$10 \times 8 = \text{Ten Times Eight is Eighty} \quad 10 \times 8 = 80$$

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$$1 \times 9 = \text{One Times Nine is Nine} \quad 1 \times 9 = 9$$

$$2 \times 9 = \text{Two Times Nine is Eighteen} \quad 2 \times 9 = 18$$

$$3 \times 9 = \text{Three Times Nine is Twenty Seven} \quad 3 \times 9 = 27$$

$$4 \times 9 = \text{Four Times Nine is Thirty Six} \quad 4 \times 9 = 36$$

$$5 \times 9 = \text{Five Times Nine is Forty Five} \quad 5 \times 9 = 45$$

$$6 \times 9 = \text{Six Times Nine is Fifty Four} \quad 6 \times 9 = 54$$

$$7 \times 9 = \text{Seven Times Nine is Sixty Three} \quad 7 \times 9 = 63$$

$$8 \times 9 = \text{Eight Times Nine is Seventy Two} \quad 8 \times 9 = 72$$

$$9 \times 9 = \text{Nine Times Nine is Eighty one} \quad 9 \times 9 = 81$$

$$10 \times 9 = \text{Ten Times Nine is Ninety} \quad 10 \times 9 = 90$$

Exercise 5.2

9	6	7	8	5	8
x 8	x 4	x 7	x 10	x 8	x 8
7 2	2 4	4 9	8 0	4 0	6 4
7 2	2 4	4 9	8 0	4 0	6 4



$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 2 \\ \times 10 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 1 \\ \times 4 \\ \hline 04 \end{array}$$

$$\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline 07 \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

B. Find the product of the following.

1. $5 \times 2 = 10$

11. $8 \times 4 = 32$

2. $3 \times 7 = 21$

12. $6 \times 2 = 12$

3. $4 \times 2 = 8$

13. $5 \times 8 = 40$

4. $9 \times 6 = 54$

14. $4 \times 7 = 28$

5. $7 \times 5 = 35$

15. $3 \times 9 = 27$

6. $3 \times 3 = 9$

16. $7 \times 10 = 70$

7. $6 \times 8 = 48$

17. $8 \times 7 = 56$

8. $2 \times 9 = 18$

18. $3 \times 1 = 3$

9. $5 \times 9 = 45$

19. $7 \times 7 = 49$

10. $6 \times 4 = 24$

20. $4 \times 9 = 36$

C. Find the missing numbers.

1. $\underline{7} \times 4 = 28$

12. $\underline{7} \times 6 = 42$

2. $\underline{8} \times 7 = 56$

13. $2 \times 7 = \underline{14}$

3. $2 \times \underline{9} = 18$

14. $\underline{9} \times 5 = 45$

4. $3 \times 6 = 18$

15. $5 \times \underline{10} = 50$



$5. 6 \times \underline{8} = 48$

$6. 9 \times 4 = \underline{36}$

$7. 4 \times \underline{3} = 12$

$8. 3 \times 10 = \underline{30}$

$9. 9 \times 7 = \underline{63}$

$10. \underline{7} \times 2 = 14$

$11. 8 \times 8 = 64$

$16. 3 \times \underline{9} = 27$

$17. 5 \times 5 = \underline{25}$

$18. 8 \times 7 = \underline{56}$

$19. 7 \times \underline{3} = 21$

$20. 9 \times \underline{8} = 72$

$21. 3 \times \underline{6} = 18$

$22. \underline{9} \times 4 = 36$

D: Complete the following:

$1. 3 \times 2 = 6$

$2. 3 \times 4 = 12$

$3. 3 \times 6 = 18$

$4. 3 \times 3 = 9$

$5. 3 \times 7 = 21$

$6. 3 \times 5 = 15$

$7. 3 \times 4 = 12$

$8. 3 \times 4 = 12$

$9. 3 \times 5 = 15$

$10. 3 \times 5 = 15$

$11. 3 \times 1 = 3$

E: change these repeated addition facts to multiplication facts and work them out:

$1. 8 \times 3 = 24$

$2. 7 \times 4 = 28$

$3. 6 \times 5 = 30$

$4. 9 \times 2 = 18$

$5. 4 \times 5 = 20$

$6. 3 \times 4 = 12$

$7. 8 \times 4 = 32$

$8. 6 \times 4 = 24$

$9. 9 \times 3 = 27$

$10. 7 \times 5 = 35$

$11. 2 \times 4 = 8$

$12. 9 \times 4 = 36$

$13. 5 \times 5 = 25$

$14. 4 \times 4 = 16$

$15. 3 \times 5 = 15$

$16. 4+4+4+4 = 16$

$17. 3+3+3+3+3+3 = 18$

$18. 2+2+2+2+2+2+2+2 = 16$

$19. 4+4+4+4+4+4+4+4+4 = 36$

$20. 3+3+3+3+3+3+3 = 21$

$21. 6+6+6+6+6 = 30$

$22. 8+8+8+8 = 32$

$23. 9+9+9 = 27$

$24. 7+7+7+7+7 = 35$

$25. 6+6+6+6 = 24$

$26. 3+3+3+3+3 = 15$

$27. 7+7+7+7 = 28$

$28. 6+6 = 12$

$29. 8+8+8 = 24$

$30. 9+9+9+9+9 = 45$



Exercise 5.3

A. Solve these (Converting Ones)

$\begin{array}{r} ^1 12 \\ \times 5 \\ \hline 60 \end{array}$	$\begin{array}{r} ^7 39 \\ \times 8 \\ \hline 312 \end{array}$	$\begin{array}{r} ^7 68 \\ \times 9 \\ \hline 612 \end{array}$	$\begin{array}{r} 29 \\ \times 1 \\ \hline 29 \end{array}$	$\begin{array}{r} ^2 37 \\ \times 4 \\ \hline 148 \end{array}$
---	--	--	--	--

$\begin{array}{r} 17 \\ \times 0 \\ \hline 00 \end{array}$	$\begin{array}{r} 64 \\ \times 2 \\ \hline 128 \end{array}$	$\begin{array}{r} 32 \\ \times 4 \\ \hline 128 \end{array}$	$\begin{array}{r} ^1 23 \\ \times 6 \\ \hline 138 \end{array}$	$\begin{array}{r} 22 \\ \times 1 \\ \hline 22 \end{array}$
--	---	---	--	--

B. Complete these (Converting Ones and Tens)

$\begin{array}{r} \text{H T O} \\ ^2 25 \\ \times 5 \\ \hline 125 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^1 86 \\ \times 3 \\ \hline 258 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^6 27 \\ \times 9 \\ \hline 243 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^2 14 \\ \times 6 \\ \hline 084 \end{array}$	$\begin{array}{r} \text{H T O} \\ 82 \\ \times 2 \\ \hline 164 \end{array}$
--	--	--	--	---

$\begin{array}{r} \text{H T O} \\ 91 \\ \times 1 \\ \hline 91 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^1 73 \\ \times 5 \\ \hline 365 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^2 83 \\ \times 7 \\ \hline 581 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^4 75 \\ \times 9 \\ \hline 675 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^7 79 \\ \times 8 \\ \hline 632 \end{array}$
--	--	--	--	--

$\begin{array}{r} \text{H T O} \\ ^3 38 \\ \times 4 \\ \hline 152 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^5 66 \\ \times 9 \\ \hline 594 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^4 47 \\ \times 6 \\ \hline 282 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^1 17 \\ \times 2 \\ \hline 34 \end{array}$	$\begin{array}{r} \text{H T O} \\ ^5 57 \\ \times 8 \\ \hline 456 \end{array}$
--	--	--	---	--

$\begin{array}{r} \text{H T O} \\ 62 \ 8 \\ \times \quad 8 \\ \hline 2 \ 2 \ 4 \end{array}$	$\begin{array}{r} \text{H T O} \\ 48 \ 7 \\ \times \quad 7 \\ \hline 6 \ 0 \ 9 \end{array}$	$\begin{array}{r} \text{H T O} \\ 29 \ 3 \\ \times \quad 9 \\ \hline 8 \ 3 \ 7 \end{array}$	$\begin{array}{r} \text{H T O} \\ 29 \ 3 \\ \times \quad 8 \\ \hline 7 \ 4 \ 4 \end{array}$	$\begin{array}{r} \text{H T O} \\ 25 \ 5 \\ \times \quad 4 \\ \hline 2 \ 2 \ 0 \end{array}$
---	---	---	---	---

End of Chapter Exercises:

A: Solve the following word problems.

1. It is done.
2. Groups of goats = 3
Goats in each group = 2
Goats altogether = $3 \times 2 = 6$
3. Cost of 1 pen = 6
Cost of 5 pens = $5 \times 6 = 30$ Rs.
4. Toy kitten groups = 2
Kittens in each group = 5
Kittens in basket = $2 \times 5 = 10$
5. 1 table has = 4 corners
8 table have = $4 \times 8 = 32$ corners
6. Sobia's age = 9 years
Her brother age = $9 \times 3 = 27$ years

B: Use multiplication tables to find the product of the numbers.

1. Cookies in per packet = 48
Cookies in three packets = $48 \times 3 = 144$
2. Cost of one book = 58
Cost of 8 books = $58 \times 8 = 464$
3. Raheel spend daily rupees = 36
In 5 days he will spend = $36 \times 5 = 180$ Rs.
4. One pack contains = 10 ice-creams
Four packs contain = $10 \times 4 = 40$ ice-creams
5. A year have = 4 seasons
In six years there will be = $4 \times 6 = 24$ seasons



6. One box contains = 6 eggs
 Ten boxes contain = $6 \times 10 = 60$ eggs
7. An insect has = 6 legs
 Six insects have = $6 \times 5 = 30$ legs
8. A pair of socks has = 2 socks
 Eight pairs have = $2 \times 8 = 16$ socks
9. Peanut butter packs = 3
 Each pack has = 3 cups
 Total no. of cups = $3 \times 8 = 24$
10. A car has = 4 wheels
 Seven cars have = $4 \times 7 = 28$ wheels
11. Days in a week = 7
 One week has = $1 \times 7 = 7$ days

Chapter 6: Division

Exercise 6.1

A: Solve these by using the method of repeated subtraction

- $20 \div 4 = 20 - 4 = 16, 16 - 4 = 12, 12 - 4 = 8, 8 - 4 = 4, 4 - 4 = 0$
- $9 \div 3 = 9 - 3 = 6, 6 - 3 = 3, 3 - 3 = 0$
- $14 \div 2 = 14 - 2 = 12, 12 - 2 = 10, 10 - 2 = 8, 8 - 2 = 6, 6 - 2 = 4, 4 - 2 = 2, 2 - 2 = 0$
- $10 \div 5 = 10 - 5 = 5, 5 - 5 = 0$
- $8 \div 2 = 8 - 2 = 6, 6 - 2 = 4, 4 - 2 = 2, 2 - 2 = 0$
- $15 \div 3 = 15 - 3 = 12, 12 - 3 = 9, 9 - 3 = 6, 6 - 3 = 3, 3 - 3 = 0$
- $54 \div 9 = 54 - 9 = 45, 45 - 9 = 36, 36 - 9 = 27, 27 - 9 = 18, 18 - 9 = 9, 9 - 9 = 0$
- $45 \div 5 = 45 - 5 = 40, 40 - 5 = 35, 35 - 5 = 30, 30 - 5 = 25, 25 - 5 = 20, 20 - 5 = 15, 15 - 5 = 10, 10 - 5 = 5, 5 - 5 = 0$
- $32 \div 8 = 32 - 8 = 24, 24 - 8 = 16, 16 - 8 = 8, 8 - 8 = 0$
- $63 \div 9 = 63 - 9 = 54, 54 - 9 = 45, 45 - 9 = 36, 36 - 9 = 27, 27 - 9 = 18, 18 - 9 = 9, 9 - 9 = 0$

B: Write the division equations for the following.

- | | |
|-----------------|----------------|
| 1. $30 \div 5$ | 5. $45 \div 9$ |
| 2. $42 \div 14$ | 6. $32 \div 8$ |
| 3. $21 \div 7$ | 7. $63 \div 9$ |
| 4. $50 \div 10$ | 8. $8 \div 2$ |



Exercise 6.2

A: Draw number lines to show the following.

1. 4
2. 3
3. 5

4. 3
5. 5

Exercise 6.3

Divide the following circles into the given number of boxes:

1. 2 in each box
2. 4 in each box
3. 3 in each box
4. 1 in each box
5. 2 in each box

Solve the following:

$$\begin{array}{r} 2 \\ 3 \overline{) 6} \\ \underline{-6} \\ 0 \end{array}$$

$$\begin{array}{r} 1 \\ 9 \overline{) 9} \\ \underline{-9} \\ 0 \end{array}$$

$$\begin{array}{r} 3 \\ 2 \overline{) 6} \\ \underline{-6} \\ 0 \end{array}$$

$$\begin{array}{r} 1 \\ 7 \overline{) 7} \\ \underline{-7} \\ 0 \end{array}$$

$$\begin{array}{r} 8 \\ 1 \overline{) 8} \\ \underline{-8} \\ 0 \end{array}$$

Exercise 6.4

Solve the following long division problems.

$$\begin{array}{r} 527 \\ 2 \overline{) 1054} \\ \underline{-10} \\ 5 \\ \underline{-4} \\ 14 \\ \underline{-14} \\ 00 \end{array}$$

$$\begin{array}{r} 907 \\ 5 \overline{) 4535} \\ \underline{-45} \\ 35 \\ \underline{-35} \\ 00 \end{array}$$

$$\begin{array}{r} 675 \\ 7 \overline{) 4725} \\ \underline{-42} \\ 52 \\ \underline{-49} \\ 35 \\ \underline{-35} \\ 00 \end{array}$$

$$\begin{array}{r} 1025 \\ 2 \overline{) 2050} \\ \underline{-2} \\ 005 \\ \underline{-4} \\ 10 \\ \underline{-10} \\ 00 \end{array}$$

$$\begin{array}{r} 486 \\ 5 \overline{) 2430} \\ \underline{-20} \\ 43 \\ \underline{-40} \\ 30 \\ \underline{-30} \\ 00 \end{array}$$

$$\begin{array}{r} 375 \\ 9 \overline{) 3375} \\ \underline{-27} \\ 67 \\ \underline{-63} \\ 45 \\ \underline{-45} \\ 00 \end{array}$$

$$\begin{array}{r} 926 \\ 2 \overline{) 1852} \\ \underline{-18} \\ 05 \\ \underline{-4} \\ 12 \\ \underline{-12} \\ 00 \end{array}$$

$$\begin{array}{r} 874 \\ 3 \overline{) 2622} \\ \underline{-24} \\ 22 \\ \underline{-21} \\ 12 \\ \underline{-12} \\ 00 \end{array}$$

$$\begin{array}{r} 4 \\ 4 \overline{) 1416} \\ \underline{-12} \\ 21 \\ \underline{-20} \\ 16 \\ \underline{-16} \\ 00 \end{array}$$

$$\begin{array}{r} 9 \\ 9 \overline{) 7092} \\ \underline{-63} \\ 79 \\ \underline{-72} \\ 72 \\ \underline{-72} \\ 00 \end{array}$$

$$\begin{array}{r} 7 \\ 7 \overline{) 5208} \\ \underline{-49} \\ 30 \\ \underline{-28} \\ 28 \\ \underline{-28} \\ 00 \end{array}$$

$$\begin{array}{r} 4 \\ 4 \overline{) 1872} \\ \underline{-16} \\ 27 \\ \underline{-24} \\ 32 \\ \underline{-32} \\ 00 \end{array}$$



$\begin{array}{r} \text{---} \\ 317 \\ 9 \overline{) 2853} \\ \underline{-27} \\ 15 \\ \underline{-9} \\ 63 \\ \underline{-63} \\ 00 \\ \text{---} \end{array}$	$\begin{array}{r} \text{---} \\ 900 \\ 7 \overline{) 6300} \\ \underline{63} \\ 000 \\ \text{---} \end{array}$	$\begin{array}{r} \text{---} \\ 644 \\ 2 \overline{) 1288} \\ \underline{-12} \\ 08 \\ \underline{-8} \\ 08 \\ \underline{-8} \\ 00 \\ \text{---} \end{array}$	$\begin{array}{r} \text{---} \\ 1010 \\ 8 \overline{) 8080} \\ \underline{-8} \\ 008 \\ \underline{-8} \\ 00 \\ \text{---} \end{array}$
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Exercise 6.5

A. We know that multiplication and division are related to each other.

Now we will practice by filling in the blanks and solving the long divisions:

1. 20 2 2
2. 56 8 8
3. 54 6 6
4. 49 6 6
5. 32 4 4
6. 35 5 5
7. 80 8 8
8. 24 3 3
9. 36 4 4
10. 81 9 9

B: Write two divisions facts for each multiplication fact.

1. $14 \div 2 = 7$ or $14 \div 7 = 2$
2. $27 \div 9 = 3$ or $27 \div 3 = 9$
3. $36 \div 4 = 9$ or $36 \div 9 = 4$
4. $35 \div 5 = 7$ or $35 \div 7 = 5$
5. $24 \div 4 = 6$ or $24 \div 6 = 4$
6. $56 \div 7 = 8$ or $56 \div 8 = 7$
7. $72 \div 9 = 8$ or $72 \div 8 = 9$
8. $45 \div 5 = 9$ or $45 \div 9 = 5$

End-of-Chapter Exercises



A. Write two multiplication facts for each division.

1. $7 \times 5 = 35$ or $5 \times 7 = 35$
2. $5 \times 6 = 30$ or $6 \times 5 = 30$
3. $10 \times 4 = 40$ or $4 \times 10 = 40$
4. $4 \times 5 = 20$ or $5 \times 4 = 20$
5. $6 \times 8 = 48$ or $8 \times 6 = 48$
6. $7 \times 3 = 21$ or $3 \times 7 = 21$
7. $8 \times 9 = 72$ or $9 \times 8 = 72$
8. $10 \times 6 = 60$ or $6 \times 10 = 60$

B. Solve the following:

1. Number of children visited museum = 155
Number of buses = 5
Children in each bus = $155 \div 5 = 31$ children

2. Bulbs to plant = 40
She puts per flower pots = 4 bulbs
Total number of flower pots are = $40 \div 4 = 10$ flower pots

3. Books in one pack = 10
Number of books to be packed = 80
Number of packs will made = $80 \div 10 = 8$ packs

4. Total number of cups = 36
Total number of boxes are = 6
Cups in each box are = $36 \div 6 = 6$ cups

5. Total number of desks = 18
Number of rows = 9
Desks in each row = $18 \div 9 = 2$ desks

6. Total number of plants = 72
Number of rows = 9
Plants in each row = $72 \div 9 = 8$ plants

7. Total chairs = 81
Chairs in each row = 9
Total number of rows = $81 \div 9 = 9$ rows

8. Total bouncing balls = 8
Number of friends = 4
Each friend has = $8 \div 4 = 2$ balls



9. Total number of candles = 45
 Total number of boys = 15
 Each boy has = $45 \div 15 = 3$ candles
10. Total number of children = 24
 Children in each group = 4
 Number of groups = $24 \div 4 = 6$ groups

C. Circle the correct answers:

- | | | |
|------|------|-------|
| 1. b | 5. d | 9. b |
| 2. c | 6. b | 10. c |
| 3. b | 7. d | |
| 4. c | 8. d | |

Chapter 7 Fractions

Exercise 7.1

A. Color the Fractions

1/2 1/2 1/2 1/4 3/4 2/4

B. Circle the fraction that shows half or quarter

To be answered by students themselves.

C. Write the fractions in the blank spaces.

1. $\frac{2}{4}$ 2. $\frac{2}{4}$ 3. $\frac{1}{4}$ 4. $\frac{5}{5}$

D. Name the fraction of the shape shaded:

1. $\frac{2}{5}$ 2. $\frac{3}{6}$ 3. $\frac{6}{8}$
4. $\frac{5}{8}$ 5. $\frac{3}{7}$ 6. $\frac{3}{6}$

E. Write the fraction as they are shown on these pictures.

1. $\frac{3}{4}$

2. $\frac{2}{4}$

3. $\frac{2}{4}$

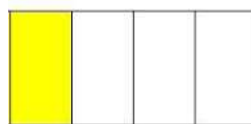
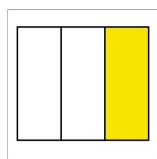
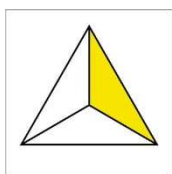
4. $\frac{1}{4}$

5. $\frac{2}{4}$

6. one whole

Exercise 7.2

A. Colour one third of each of the following figures:



B. Colour one third of each of the following group of animals:

- a. Colour one rabbit
- b. Colour three fishes
- c. Colour two hens

C. Answer the following questions:

- a. 1
- b. 2
- c. 3

- d. 4
- e. 5

D. Circle the fraction that shows one third.

Circle a and d

E. Look at these pictures and write the fractions in blanks.

- a. $\frac{1}{3}$
- b. $\frac{2}{3}$
- c. $\frac{1}{2}$

- d. $\frac{6}{12}$
- e. $\frac{5}{6}$
- f. $\frac{4}{6}$

F. Colour $\frac{1}{3}$ of each picture

To be answered by students themselves.

Exercise 7.3

A. Add these fractions with same denominators.

1. $\frac{2}{9} + \frac{2}{9} = \frac{4}{9}$

$$2. \frac{1}{4} + \frac{1}{4} = \frac{2}{4}$$

$$3. \frac{3}{10} + \frac{4}{10} = \frac{7}{10}$$

$$4. \frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

$$5. \frac{2}{12} + \frac{10}{12} = \frac{10}{12}$$

$$6. \frac{2}{6} + \frac{2}{6} = \frac{4}{6}$$

B. Add these fractions with the same denominator.

$$1. \frac{5+8}{15} = \frac{13}{15}$$

$$6. \frac{9+9}{28} = \frac{18}{28}$$

$$2. \frac{3+1}{7} = \frac{4}{7}$$

$$7. \frac{10+12}{24} = \frac{22}{24}$$

$$3. \frac{6+4}{13} = \frac{10}{13}$$

$$8. \frac{17+3}{22} = \frac{20}{22}$$

$$4. \frac{7+8}{24} = \frac{15}{24}$$

$$9. \frac{22+15+17}{60} = \frac{54}{60}$$

$$5. \frac{11+5}{19} = \frac{16}{19}$$

Exercise 7.3

A. Subtract these fractions:

$$1. \frac{10-3}{12} = \frac{7}{12}$$

$$2. \frac{5-3}{7} = \frac{2}{7}$$

$$3. \frac{2-1}{3} = \frac{1}{3}$$

$$4. \frac{3-2}{4} = \frac{1}{4}$$

$$5. \frac{4-2}{5} = \frac{2}{5}$$

$$6. \frac{9-3}{10} = \frac{6}{10}$$

$$7. \frac{7-4}{8} = \frac{3}{8}$$

$$8. \frac{11-10}{12} = \frac{1}{12}$$

$$9. \frac{7-4}{9} = \frac{3}{9}$$

$$10. \frac{10-4}{11} = \frac{6}{11}$$

End of chapter exercises:

Read and answer each question in fractions.

1.

a $\frac{7}{9}$

b $\frac{4}{9}$

c $\frac{2}{9}$

d. 5

e. 6



2.

- a 7/15
- b. 8/15
- c. 11/15

- d. 4
- e. 2/15

3.

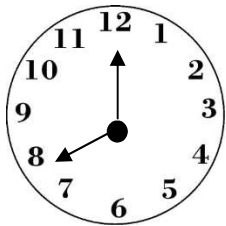
- a 8/11
- b. 5/11
- c. 7/11

- d. 3
- e. 9

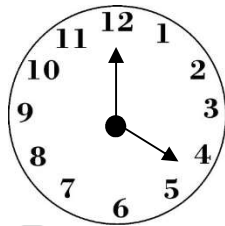
Chapter 8. Time and Date

Exercise 8.1

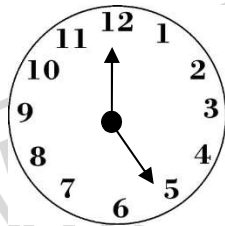
A. Draw hand on the clock to show the time given



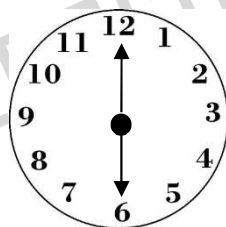
8 O'clock



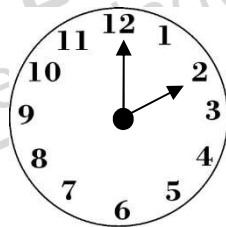
4 O'clock



5 O'clock



6 O'clock



2 O'clock

B. Look at the pictures, and write down the times whether the time is quarter to, quarter past or half past? (from left to right)

1. 10:30 half past ten
2. 12:45 quarter to one
3. 9:15 quarter past nine
4. 06:00 six o'clock
5. 08:32 half past eight

Exercise 8.2

A. Are these times before or after midnight?

- | | |
|--------------------|--------------------|
| 1. After midnight | 6. After midnight |
| 2. Before midnight | 7. Before midnight |
| 3. Before midnight | 8. After midnight |
| 4. After midnight | 9. Before midnight |
| 5. Before midnight | 10. After midnight |

B. Are these times before or after midday?

- | | |
|------------------|-------------------|
| 1. before midday | 6. Before midday |
| 2. after midday | 7. After midday |
| 3. after midday | 8. Before midday |
| 4. before midday | 9. After midday |
| 5. after midday | 10. Before midday |

C. Fill in the blanks with am or pm.

1. am
2. pm
3. pm
4. pm
5. noon

Exercise 8.3

A. Which month comes next? Write the names of the next months.

- | | |
|-------------|--------------|
| 1. November | 5. September |
| 2. June | 6. March |
| 3. August | 7. December |
| 4. January | |

B. Complete the given worksheet.

1. Summer
2. 31
3. Tuesday
4. Friday



5. Saturday
6. a 10th August
 - b. 6th August
 - c. 23rd August

End-of-Chapter Exercises

A. Solve the following Word Problems.

- | | |
|---------------|----------|
| 1. 11: 00 am | 6. 6:45 |
| 2. 2:00 pm | 7. 4:30 |
| 3. 4 hours | 8. 4:00 |
| 4. 3 hours | 9. 7:30 |
| 5. 25 minutes | 10. 3:45 |

Chapter 9. Measuring length

Exercise 9.1

A: Measure the length of following items

To be answered by students themselves.

B: Measure the following line segments and write your measurement in mm.

- | | |
|-----------|------------|
| 1. 2.8cm | 5. 4 cm |
| 2. 4.3 cm | 6. 9 cm |
| 3. 2.1 cm | 7. 11.1 cm |
| 4. 1 cm | 8. 7 cm |

C: Draw straight lines of following length on your notebooks

2cm _____

4cm _____

1cm _____



- 5cm _____
- 6cm _____
- 8cm _____
- 9cm _____
- 7cm _____

D: Measure each of the items and fill in the blanks

9. Pencil 4.2 cm Piece of rope 8.2 cm
 The piece of rope is 4cm longer than pencil.

10. Ant 4.2 cm Battle 3.5 cm
 The battle is 1.3cm longer than ant

11. Open bracket 2 cm Safety pin 3.9 cm
 The safety pin is 1.9cm longer than open bracket.

Exercise 9.2

A. Add these sums

M	CM		M	CM		M	CM	
2	17		1	92		6	47	
+	3	12	+	5	3	+	2	36
5	29		6	95		8	83	

M	CM		M	CM		M	CM	
10	9		16	35		11	74	
+	4	0	+	4	48	+	14	15
14	9		20	83		25	89	



M CM 20 4 + 9 2 <hr style="border: 0.5px solid black;"/> 29 6 <hr style="border: 0.5px solid black;"/>	M CM 36 25 + 3 18 <hr style="border: 0.5px solid black;"/> 39 43 <hr style="border: 0.5px solid black;"/>	M CM 21 33 + 9 29 <hr style="border: 0.5px solid black;"/> 30 62 <hr style="border: 0.5px solid black;"/>
--	---	---

B: Fill in the blanks:

1. 9m
2. 15m
3. 18cm
4. 36m
5. 36m

Exercise 9.3

A. Subtract these:

M CM 54 9 - 24 2 <hr style="border: 0.5px solid black;"/> 30 7 <hr style="border: 0.5px solid black;"/>	M CM 7 42 - 3 31 <hr style="border: 0.5px solid black;"/> 4 11 <hr style="border: 0.5px solid black;"/>	M CM 38 73 - 27 31 <hr style="border: 0.5px solid black;"/> 11 42 <hr style="border: 0.5px solid black;"/>
---	---	--

M CM 5 45 - 4 00 <hr style="border: 0.5px solid black;"/> 1 00 <hr style="border: 0.5px solid black;"/>	M CM 55 22 - 28 62 <hr style="border: 0.5px solid black;"/> 26 60 <hr style="border: 0.5px solid black;"/>	M CM 1 55 - 1 32 <hr style="border: 0.5px solid black;"/> 0 23 <hr style="border: 0.5px solid black;"/>
---	--	---

M CM 10 9 - 7 6 <hr style="border: 0.5px solid black;"/> 3 3 <hr style="border: 0.5px solid black;"/>	M CM 36 25 - 13 18 <hr style="border: 0.5px solid black;"/> 23 07 <hr style="border: 0.5px solid black;"/>	M CM 22 33 - 9 22 <hr style="border: 0.5px solid black;"/> 13 11 <hr style="border: 0.5px solid black;"/>
---	--	---



B. Fill in the Blanks.

1. 3m 2. 7cm 3. 62m 4. 34cm 5. 29cm
6. 20m 7. 20m 8. 115m 9. 5cm 10. 37cm

End-of-Chapter Exercises

A. Solve the following Word Problems.

1. Previous length of snake = 45 cm
Present length of snake = 65cm
Increase in length of snake = $65 - 45 = 20$ cm

2. Length of baby kangaroo = 35 cm
Length of young kangaroo = 99 cm
Baby kangaroo was = $99 - 35 = 64$ cm short

3. Total length of ribbon = 60 cm
Ribbon left after a cut = 20 cm
I cut off = $60 - 20 = 40$ cm

4. Length of helicopter = 7 m
Length of air plane = 12 m
Air plane is = $12 - 7 = 5$ m longer

5. Length of book = 19 cm
Length of flap = 8 cm
Total length of book = $19 + 7 = 26$ cm

6. Length of tree = 7 m
Difference in Length of
tree and giraffe = 2 m
Length of giraffe is = $7 - 2 = 5$ m



7. Length of rabbit = 35.3 cm
Length of monkey = 70.9 cm
Difference in length = $70.9 - 35.3 = 35$ cm and 6mm

8. Height of bird = 5 cm
Camel is 50 times taller so = $5 \times 50 = 250$ cm
We know = 100 cm = 1 m
Therefor = $250 \div 100 = 2.5$ m
Camel is = 2.5 m tall than rabbit.

9. b

10. c

Chapter 10 Measuring Mass or Weight

Exercise 10.1

A. Tick the correct word that best describes the weight of each object

Car (heavy)	Elephant (heavy)	Eraser (light)
Leaf (light)	Bucket (heavy)	Butterfly (light)
ice-cream (light)	Pineapple (heavy)	Salt pot (light)
Ant (light)	Aero plane (heavy)	Pencil (light)

B. Give the answers to these questions.

1. 6 kg	2. 101 kg	3. 135 kg	4. Rs. 64
5. 60 kg	6. 500 gm	7. 240 kg	8. 559 kg 532 gm



Exercise 10.2 A. Add these sums:

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 12 \quad 125 \\ + \quad 15 \quad 200 \\ \hline 27 \quad 325 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 24 \quad 700 \\ + \quad 30 \quad 223 \\ \hline 54 \quad 923 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 85 \quad 125 \\ + \quad 69 \quad 118 \\ \hline 154 \quad 243 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 24 \quad 225 \\ + \quad 35 \quad 100 \\ \hline 59 \quad 325 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 34 \quad 300 \\ + \quad 24 \quad 123 \\ \hline 58 \quad 423 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 35 \quad 125 \\ + \quad 49 \quad 18 \\ \hline 84 \quad 143 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 73 \quad 125 \\ + \quad 11 \quad 200 \\ \hline 84 \quad 325 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 55 \quad 500 \\ + \quad 20 \quad 321 \\ \hline 75 \quad 821 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 52 \quad 135 \\ + \quad 29 \quad 112 \\ \hline 81 \quad 247 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 22 \quad 105 \\ + \quad 25 \quad 120 \\ \hline 47 \quad 225 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 14 \quad 340 \\ + \quad 30 \quad 223 \\ \hline 44 \quad 563 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 95 \quad 115 \\ + \quad 69 \quad 108 \\ \hline 164 \quad 223 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 52 \quad 805 \\ + \quad 35 \quad 95 \\ \hline 87 \quad 900 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 28 \quad 700 \\ + \quad 11 \quad 3 \\ \hline 39 \quad 703 \end{array}$$

$$\begin{array}{r} \text{Kg} \quad \text{g} \\ 85 \quad 105 \\ + \quad 69 \quad 118 \\ \hline 154 \quad 223 \end{array}$$



Kg g 47 437 + 45 205 <hr style="border: 0.5px solid black;"/> 92 642	Kg g 69 888 + 30 111 <hr style="border: 0.5px solid black;"/> 99 999	Kg g 72 182 + 22 672 <hr style="border: 0.5px solid black;"/> 94 854
--	--	--

Exercise 10.3 A. Subtract the following:

Kg g 42 125 - 15 100 <hr style="border: 0.5px solid black;"/> 27 025	Kg g 54 700 - 30 110 <hr style="border: 0.5px solid black;"/> 24 590	Kg g 185 125 - 169 108 <hr style="border: 0.5px solid black;"/> 16 017
--	--	--

Kg g 924 225 - 105 120 <hr style="border: 0.5px solid black;"/> 819 105	Kg g 134 300 - 124 103 <hr style="border: 0.5px solid black;"/> 10 197	Kg g 335 25 - 249 18 <hr style="border: 0.5px solid black;"/> 86 07
---	--	---

Kg g 113 325 - 101 100 <hr style="border: 0.5px solid black;"/> 12 225	Kg g 524 70 - 130 23 <hr style="border: 0.5px solid black;"/> 394 47	Kg g 282 235 - 129 102 <hr style="border: 0.5px solid black;"/> 153 133
--	--	---

Kg	g	Kg	g	Kg	g
777	111	420	420	575	700
-	721	100	-	124	407
<hr/>		<hr/>		<hr/>	
56	011	296	013	326	694
<hr/>		<hr/>		<hr/>	

Kg	g	Kg	g	Kg	g
321	671	873	580	680	121
-	320	670	-	159	107
<hr/>		<hr/>		<hr/>	
1	001	714	473	235	620
<hr/>		<hr/>		<hr/>	

Kg	g	Kg	g	Kg	g
301	501	100	999	808	600
-	301	500	-	1	998
<hr/>		<hr/>		<hr/>	
000	001	99	001	202	095
<hr/>		<hr/>		<hr/>	

End-of-Chapter Exercises

A. Fill in the blanks with proper unit of mass.

Carrot (gram) orange (gram) cauliflower (gram) pineapple (kg)
 tomato (gram) watermelon(kg) pencil (gram) book (kg) school bag (kg)

B. Give the following answers.

- 1 kg 335 g
- 2 kg 899 g
- 2 kg 305 g
- 6 kg 180 g
- 5kg 18 g



Chapter 11: Measuring Volume and Capacity

Exercise 11.1

A. Look at these pictures and give your answers in litres or millilitres.

- | | | | |
|----------|-------|-----------|-----------|
| 1. litre | 2. ml | 3. litres | 4. ml |
| 5. litre | 6. ml | 7. ml | 8. Litres |

B. Look at these pictures and give your answers in liters or milliliters.

- | | | | |
|------------|------------|-----------|------------|
| Spoon (ml) | glass (ml) | disc (ml) | kettle (L) |
| Bottle (L) | bucket (L) | Jug (L) | |

Exercise 11.2 Circle the item which has more capacity.

To be answered by student themselves.

Exercise 11.3 A. Match the containers to their volumes of liquid.

To be answered by student themselves

Exercise 11.4

A. To solve simple problems of units of volumes involving addition and Subtraction:

$$\begin{array}{r} \text{L} \quad \text{ml} \\ 5 \quad 22 \\ + \quad 39 \quad 12 \\ \hline 44 \quad 34 \end{array}$$

$$\begin{array}{r} \text{L} \quad \text{ml} \\ 11 \quad 92 \\ + \quad 5 \quad 4 \\ \hline 16 \quad 96 \end{array}$$

$$\begin{array}{r} \text{L} \quad \text{ml} \\ 16 \quad 47 \\ + \quad 22 \quad 36 \\ \hline 38 \quad 83 \end{array}$$

$$\begin{array}{r} \text{L} \quad \text{ml} \\ 15 \quad 32 \\ + \quad 9 \quad 22 \\ \hline 24 \quad 54 \end{array}$$

$$\begin{array}{r} \text{L} \quad \text{ml} \\ 21 \quad 92 \\ + \quad 5 \quad 14 \\ \hline 27 \quad 06 \end{array}$$

$$\begin{array}{r} \text{L} \quad \text{ml} \\ 36 \quad 17 \\ + \quad 22 \quad 26 \\ \hline 58 \quad 43 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 15 \quad 2 \\
 + \quad 19 \quad 1 \\
 \hline
 34 \quad 3
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 10 \quad 92 \\
 + \quad 19 \quad 14 \\
 \hline
 30 \quad 06
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 13 \quad 17 \\
 + \quad 32 \quad 6 \\
 \hline
 45 \quad 23
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 25 \quad 11 \\
 + \quad 19 \quad 10 \\
 \hline
 44 \quad 21
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 10 \quad 12 \\
 + \quad 5 \quad 4 \\
 \hline
 15 \quad 16
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 13 \quad 47 \\
 + \quad 20 \quad 16 \\
 \hline
 33 \quad 63
 \end{array}$$

B.

Subtract

these sums:

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 39 \quad 12 \\
 - \quad 15 \quad 22 \\
 \hline
 23 \quad 90
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 11 \quad 92 \\
 - \quad 5 \quad 84 \\
 \hline
 6 \quad 08
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 46 \quad 27 \\
 - \quad 12 \quad 16 \\
 \hline
 34 \quad 11
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 25 \quad 62 \\
 - \quad 19 \quad 42 \\
 \hline
 6 \quad 20
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 22 \quad 92 \\
 - \quad 15 \quad 4 \\
 \hline
 7 \quad 88
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 66 \quad 87 \\
 - \quad 12 \quad 36 \\
 \hline
 54 \quad 51
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 25 \quad 2 \\
 - \quad 19 \quad 1 \\
 \hline
 6 \quad 1
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 60 \quad 92 \\
 - \quad 9 \quad 84 \\
 \hline
 51 \quad 08
 \end{array}$$

$$\begin{array}{r}
 \text{L} \quad \text{ml} \\
 93 \quad 17 \\
 - \quad 12 \quad 2 \\
 \hline
 81 \quad 15
 \end{array}$$



	L	ml		L	ml
				15	04
	25	11	-	10	12
-	22	11		4	92
	3	00		73	36

End-of-Chapter Exercises

1. Solve the following Word Problems

1. Milk used = $35 + 15 = 50$ liters

Oil used = $20 + 3 = 23$ liters

Milk and oil used altogether = $50 + 23 = 73$ liters

2. Total milk quantity = 87 liters

Milk sold = 32 liters

Milk left = $87 - 32 = 55$ liters

3. Oil manufactured in a week = 700 liters

More oil manufactured = 180 liters

Total quantity of oil = $700 + 180 = 880$ liters

2. Petrol purchased = 250 liters

Used = 180 liters

Left petrol = $250 - 180 = 70$ liters

5. Cold drink = 700 liters

Water = 400 liters

Used altogether = $700 + 400 = 1100$ liters

6. Total quantity of medicine = 180 ml

Medicine used per day = 4 ml

For 10 days she consumed = $4 \times 10 = 40$ ml

Medicine left = $180 - 40 = 140$ ml



7. Water in aquarium = 630 liters
Wasted water = 180 liters
Left water = $630 - 180 = 450$ liters

8. a. largest amount = $400 + 550 = 950$ ml
b. smallest amount = $200 - 150 = 50$ ml

B. Write the quantity on each glass in litres.

- First glass **three quarter liter**, second **half liter**, third **quarter liter**.

C. Follow the instructions and show the volume.

To be answered by students themselves.

Chapter 12: Turning Data into Graphs

Exercise 12.1

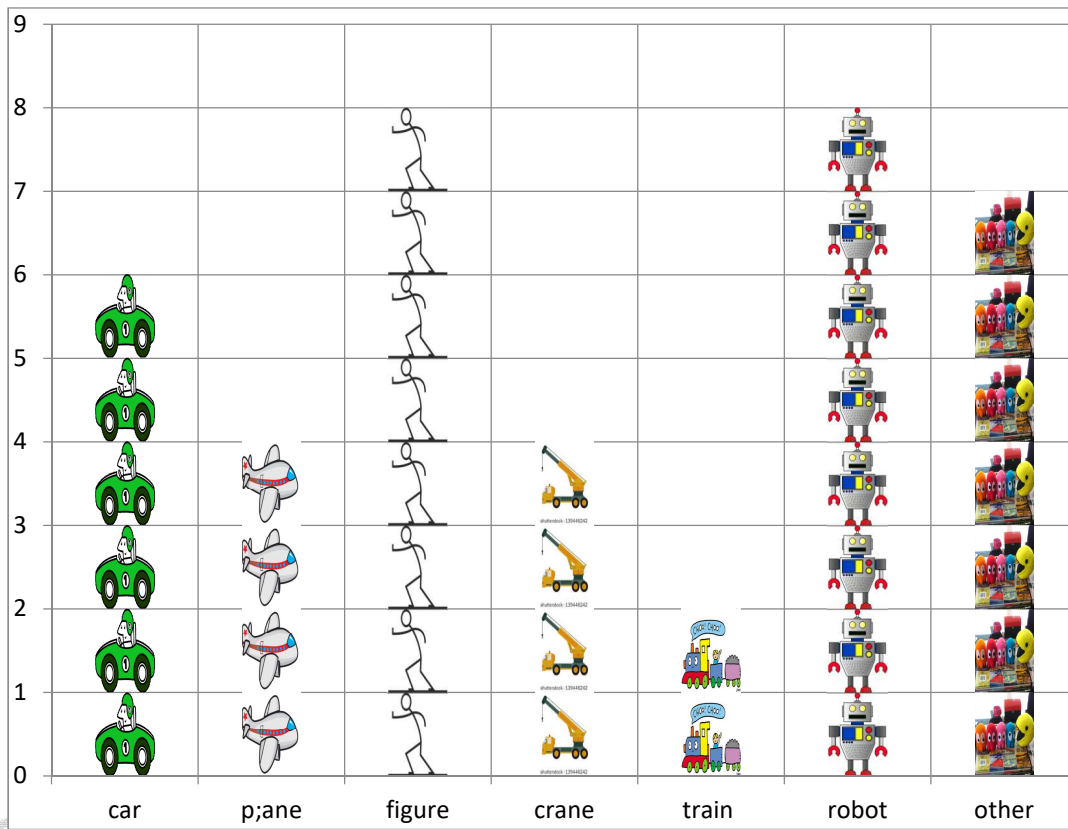
A. State whether the following statements are True or False.

1. True
2. False
3. True
4. False
5. True
6. True
7. False
8. True

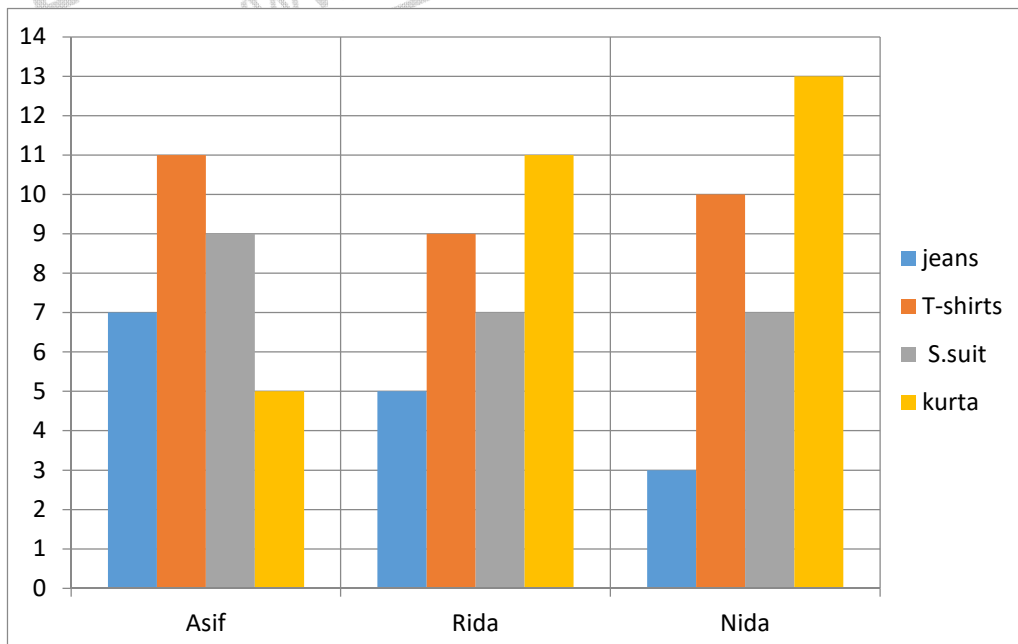


B Make picture graph according to the data given.

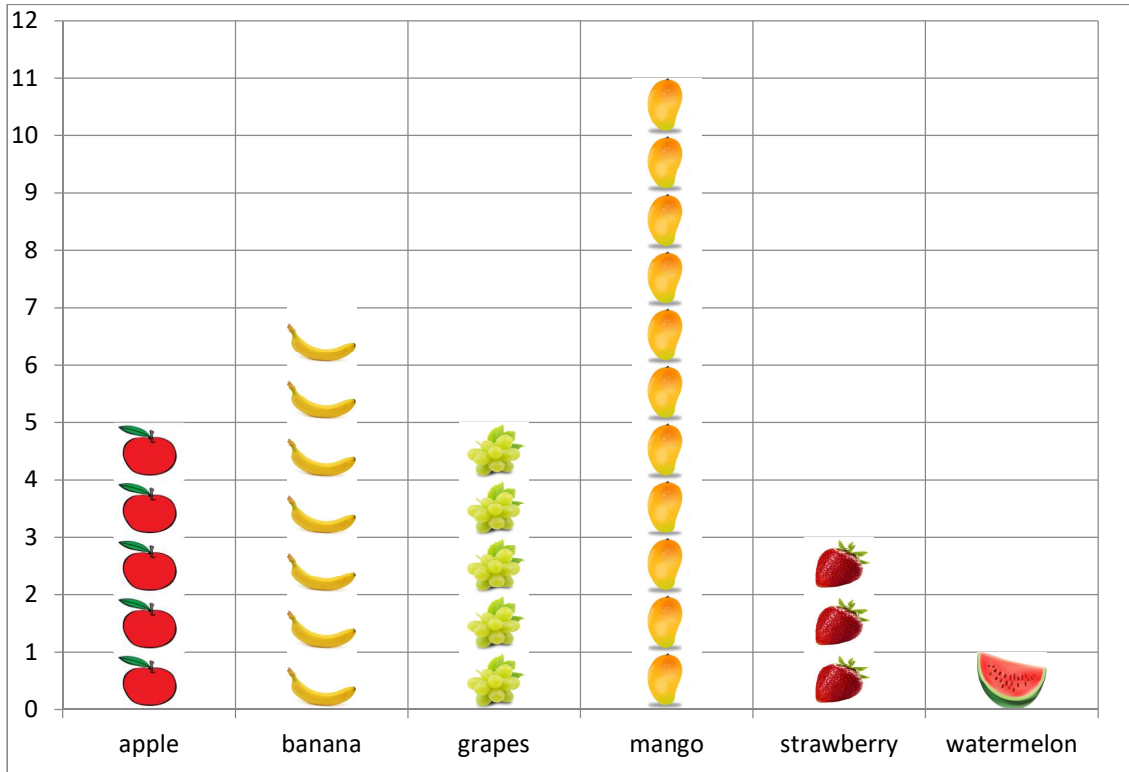
1.



2.



3.



4. To be answered by students themselves.

Exercise 12.2

A. Count the accessories

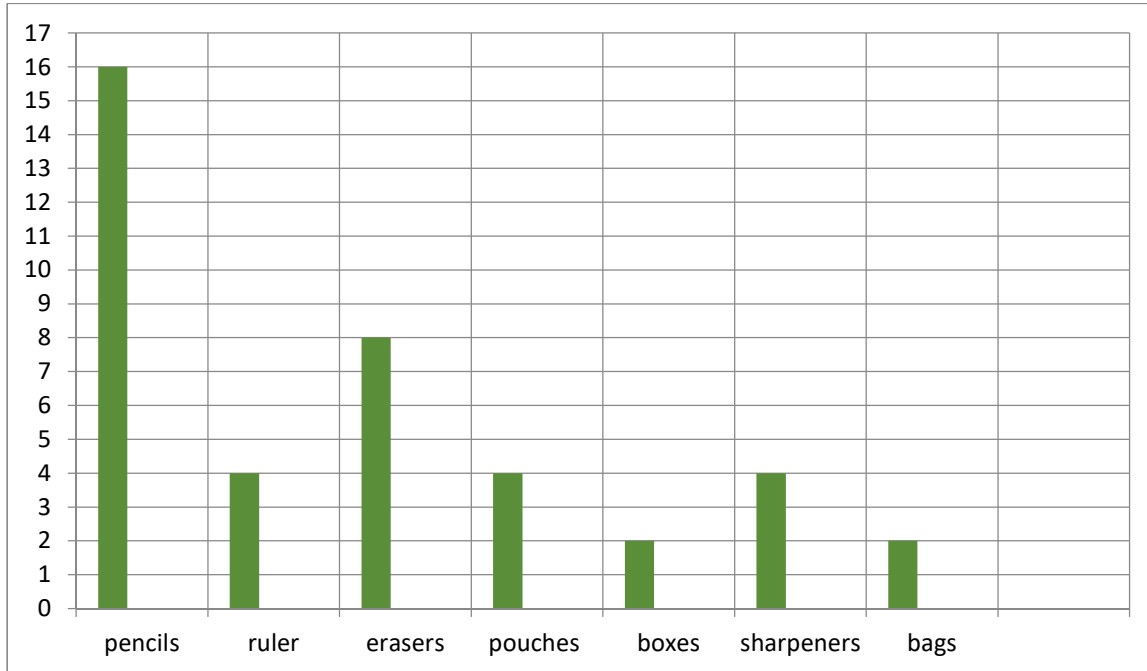
To be answered by students themselves.

B. State whether the following statements are True or False.

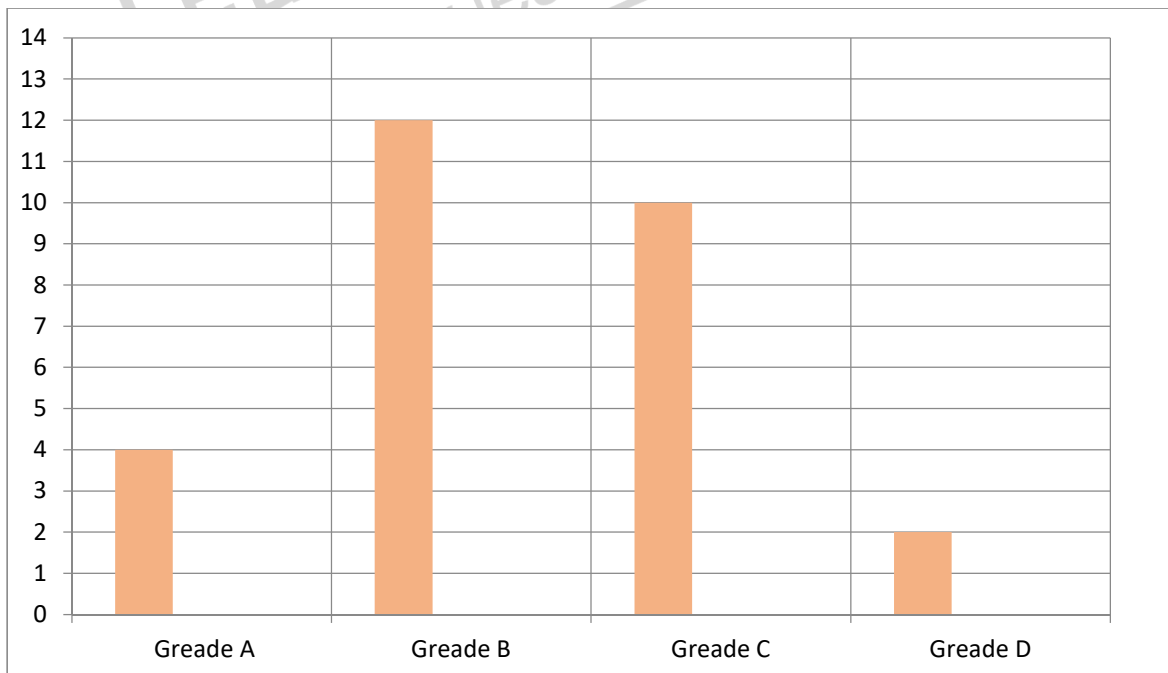
1. False
2. True
3. True
4. True
5. False
6. False
7. True

C Make a bar graph according to data given

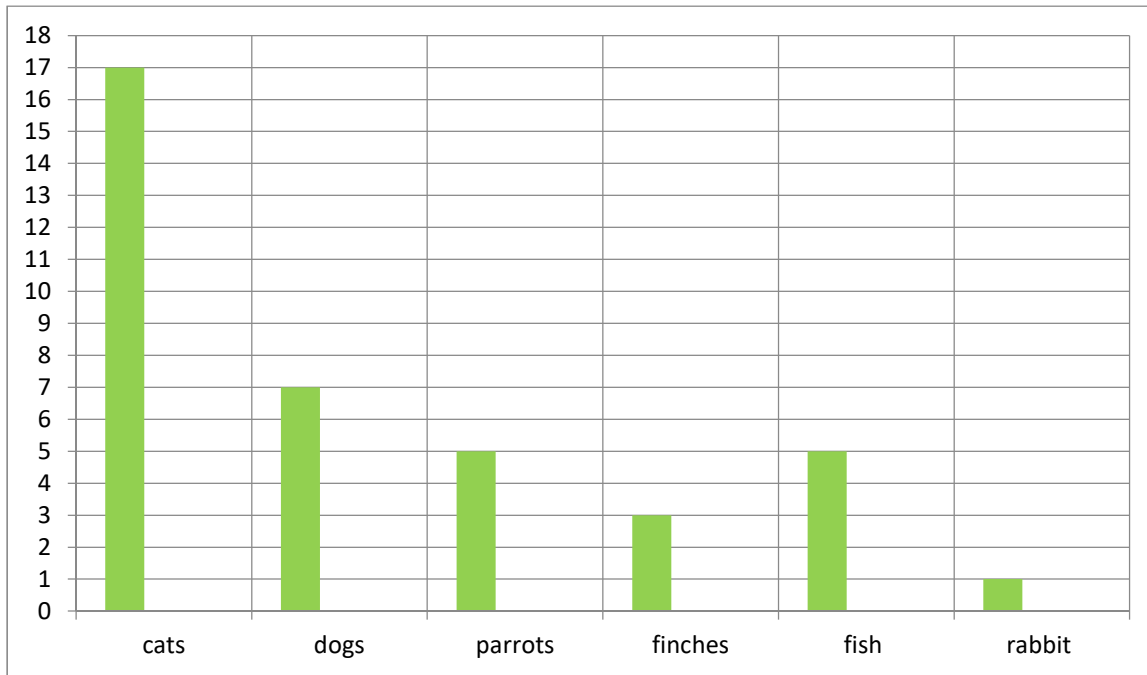
1.



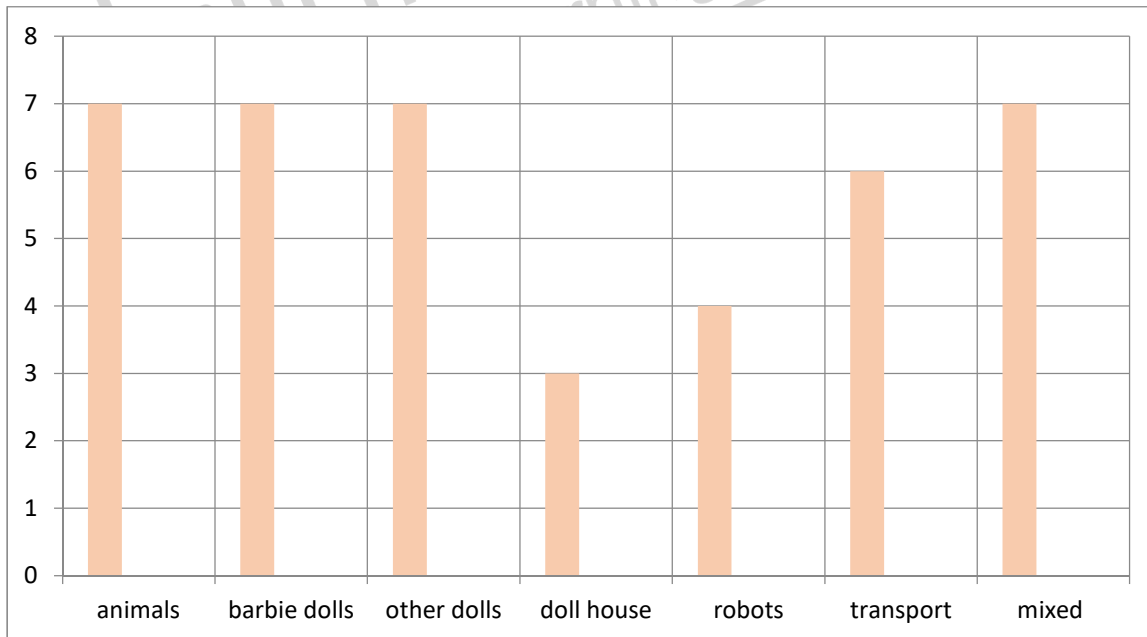
2.



3.



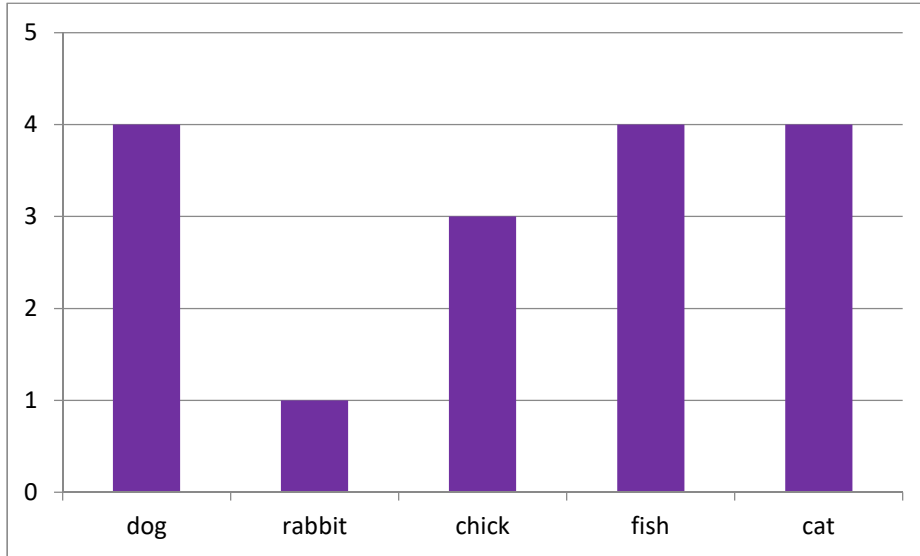
4.



D: Colour the graph to show the count of each picture.

To be answered by students themselves.

E Make a bar graph to show how many of each type of pets are there



1. One
2. One
3. Rabbit, chicks, cats , fish , dogs

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