

Class -V



<u>Study material</u>



and November



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<u>Ch-10</u>

Tenths and Hundredths

Key points to remember:

- Introduction
- Write as mixed numerals
- Compare using >, < or =
- Arrange in ascending order
- Arrange in descending order
- Fill in the blanks
- Word problems
- MCQ's
- Activity

***** Introduction:



6)
$$\frac{870}{100} = \underline{8.7}$$

7) $200 + 0 + 2 + \frac{1}{10} + \frac{3}{100} = \underline{202.13}$
8) $50 + 6 + \frac{0}{10} + \frac{0}{100} = \underline{56.00}$
9) $\frac{35}{100} = \underline{0.35}$
10) $\frac{93}{100} = \underline{0.93}$
11) $\frac{5}{100} = \underline{0.05}$
12) $\frac{1}{2} = 0.25$

Write as mixed numerals:

1) 2.84 = $2\frac{84}{100}$ 2) 39.075 = $39\frac{075}{1000}$ = $39\frac{75}{1000}$ 3) 77.77 = $77\frac{77}{100}$ 4) 9.120 = $9\frac{120}{1000}$ 5) 281.004 = $281\frac{004}{1000}$ = $281\frac{4}{1000}$

Comparison use sign (>,< or =)

1) $0.734 \ge 0.374$ 2) $99.5 \ge 99.05$ 3) $369.5 \ge 3.695$ 4) $0.005 \equiv 0.005$ 5) $6.49 \le 64.9$ 6) $75.1 \ge 7.51$ 7) $0.09 \ge 0.009$ 8) 2.87 = (2.32 + 0.55)

***** Arrange in ascending order:

	1				
1)	2.35,	22.35,	0.235,	2.325	
Ans	0.235,	2.325,	2.35,	22.35	
2)	7.64,	77.064,	7.46,	77.604	
Ans	7.46,	7.64,	77.064,	77.604	
3)	1.05,	3.05,	0.05,	2.05	266
Ans	0.05,	1.05,	2.05,	3.05	
4)	2.09,	9.02,	2.90,	9.20	
Ans	2.09,	2.90,	9.02,	9.20	

* Arrange in descending order:

1)	4.87,	4.78,	8.74,	8.47	
Ans	8.74,	8.47,	4.87,	4.78	
2)	2.08,	2.80,	8.02,	8.20	
Ans	8.20,	8.02,	2.80,	2.08	
3)	9.054,	9.045,	9.450,	9.540	
Ans	9.540,	9.450,	9.054,	9.045	
4)	6.32,	6.23,	6.302,	6.023	×
Ans	6.32,	6.302,	6.23,	6.023	000

✤ Fill in the blanks:

- 1) 3 cm 4 mm is equal to <u>3.4</u> cm.
- 2) 7.8 cm is equal to <u>7</u> cm and <u>8</u> mm.
- 3) 15.64 m is equal to <u>15</u> m and <u>64</u> cm.
- 4) 3.129 km is equal to <u>3</u> km and <u>129</u>m.
- 5) Rs21 Paise 3 is equal to <u>21.3</u> Rs.

Word problems:

1) Monika paid Rs 8.25 for chips and Rs 5.75 for chocolates. She got Rs 7 as return from the shop keeper. How much money did she pay?

Solution: Monika paid 8.25 chips + 5.75 chocolates 14.00 Total

> 14.00 Total + 7.00 Shopkeeper return. 21.00 she paid to shopkeeper

Monika paid Rs 21.00 to shopkeeper

2) Rohit had Rs 150. He bought sugar for Rs 19.50, rice for Rs 90 and biscuit for

Rs 28.25. How much money was he left with?

Solution: Rohit had Rs 150

19.50 he bought sugar + 90.00 he bought rice + 28.25 he bought biscuit 137.75 Total

Total money Rohit left with him = 150 - 137.75 = Rs 12.25.

MCQ's:

- 1) $9 \text{ cm} = ___ \text{mm}$ a) 0.9 b) 90 c) 900 d) 9000
- 2) Eighty-seven hundredths are:
 a) 8700 b) 870 c) 8.7 d) 0.87
- 3) Four hundred fifty-seven thousandths are:
 a) 0.407 b) 457 c) 0.457 d) 45700
- 4) The shaded part in
 a) Eight-tenths
 b) six- eighth
 c) two eighth d) eight-hundredths
- 5) Seven-tenths of a cm is equal to $\underline{0.7}$ cm.

- a) 7 b) 0.07 c) 0.7
 b) 0.07 c) 0.7
 c) Three-hundredths of a m is <u>3</u> cm
 a) 0.03 b) 0.03 c) 3
- ***** Activity:

18

2

16

15

42

13

N

• Using the scale and find the difference in length of candles and flame (Do in theText book page no:136)

3) Using the scale on this page find the difference in length between candle 1 and candle 3.



Ch-11 Area and it's boundary

***** <u>Key points to remember:</u>

- Introduction
- Find the perimeter (by figure)
- Find the missing length (with help of perimeter)
- Fill in the blanks
- Word problem
- Activity

***** Introduction:



- Perimeter: The total length of all the line segments of a closed figure is called its perimeter.
 - Perimeter of rectangle= 2(length + breadth)
 - Perimeter of square = $4 \times \text{length}$
 - Perimeter of triangle = Sum of three sides
- > Area: The region enclosed between boundaries of a figure.

Area of rectangle = Length \times Breadth

Area of square = $length \times Length$

> Types of triangle

Scalene Triangle - A triangle whose all three sides are of different length is known as scalene triangle.



Isosceles Triangle - A triangle whose two sides are of equal length is known as isosceles triangle.



Equilateral Triangle - A triangle whose all sides are of equal length is known as equilateral triangle.



Solution

3 cm

a)

4 cm

Perimeter = sum of all the sides

$$= 5 \text{ cm} + 4 \text{ cm} + 3 \text{ cm} + 3 \text{ cm}$$

= 15 cm



Solution

Perimeter = sum of all the sides

= 3 cm + 4 cm + 6 cm

= 13 cm



Solution

Perimeter = sum of all the sides

=3 cm + 3 cm + 3 cm + 3 cm + 3 cm

= 18 cm.













perimeter = 18 cm

Solution

```
5cm + 2cm + 1cm + 3cm + 1cm + 3cm + 1 cm + x = 18 cm
```

16cm + x = 18cm

X = 18 - 16

X = 2 cm.

- ✤ Fill in the blanks:
- 1) The distance around a square field can be calculated using formula $4 \times \text{length.}$
- 2) <u>Area is region enclosed between the boundaries of a figure.</u>
- 3) The measurement of length and breadth is needed to calculate the area of a rectangle.
- 4) A rectangle plot is $25 \text{ m} \times 15 \text{ m}$ in dimensions. The total wire needed to fence around it is <u>80 m.</u>

Word problems:

1) The area of rectangle is 225 sq m. If the width of it rectangle is 9 m. what is the length of a rectangle?

Solution:

area of rectangle = 225 sqm Width = 9 m Length =? (Area of rectangle = length × width)

Length =
$$\frac{area \ of \ rectangle}{width}$$

= $\frac{225}{9}$
= 25 m
Length = 25 m

2) The area of rectangle is 84 sq m. If the length of it rectangle is 12 m. what is the width of a rectangle?

Solution:

area of rectangle = 84 sq m Length = 12 m Width =? Width = $\frac{area \ of \ rectangle}{length}$ = $\frac{84}{12}$ = 7 m

Width = 7 m

3) The area of rectangle is 375 sq m. If the length of it rectangle is 15 m. what is the width of a rectangle?

Solution:

area of rectangle = 375 Length = 15 m Width =? Width = $\frac{area \ of \ rectangle}{length}$ = $\frac{375}{15}$

= 25 m Width = 25 m

***** Activity:



Ch- 12 smart charts

* <u>Key points to remember:</u>

- Introduction
- Show the tally mark
- Look the bar graph and answer the question.
- Pie chart
- Activity

Introduction:

- **Data:** Data is collection of facts or information.
- Tally marks are ₩.

Example:

1		6	J##1
2		7	JH#
3		8	J##111
4		9	J##*
5	JHIT	10	

 Bar graph: A bar graph can be defined as a chart or a graphical representation of data, quantities or numbers using bars or strips.

Pie – charts: A pie chart is a circle chart which is divided into slices to illustrate numerical proportion.

Show the tally marks:

[A]

Animals	Cats	Dogs	Rabbits	Cows	Parrots	Goats	Squirrels
Numbers	25	10	9	13	15	20	3

Answer

Animals	Tally Marks	Numbers
Cats	美美美美美	25
Dogs	₩₩	10
Rabbits		9
Cows		13
Parrots	· ·	15
Goats		20
Squirrels		3

[B] (Hw)

Juice	Apple	Orange	Pineapple	Guava	Litchi	Mixed fruit
Number	24	26	19	8	14	24

Answer

Juice	Tally Marks	Numbers
Apple	-	24
Orange		26
Pineapple		19
Guava		8
Litchi		14

The graph below shows the sale of 4 different milk shakes in a café on a Sunday see the graph and answer the question:

- a) If a glass of banana shakes costs Rs 15, how much did the café owner earn from the sale of banana shakes? $15 \times 60 = 900$
- b) Which shake is preferred by most number of children? Strawberry
- c) Least favorite juice is <u>Apple</u>
- d) Find the total number of shakes sold on Sunday. 40 + 80 + 60 + 100 = 280
- e) What is difference between apple shake and mango shake sold? 80 40 = 40

• Look the bar graph below and answer the question:

a) Which sport is played by the maximum number of students?

Ans: Cricket

b) How many students play football?

Ans: 30 students

c) How many students go for tennis?

Ans: 35 students

d) Which game is played the least by the students?

Ans: Bad Minton

e) How many like to play hockey?

Ans: 20 students

✤ Look at the data shown in the pie chart given below. Answer the following questions

- a) The survey was carried out on <u>20</u> children.
- b) Adventure books are read by <u>8 children</u>.
- c) More number of children read <u>My story</u> and <u>adventure</u> books than Science Fiction.
- d) The same number of children read <u>comics</u> and <u>travel</u> books.
- ***** Activity:
 - Make tally mark of what your friends like to do after school. For example

What they like to do after school	Number of children
Watching TV	2
Playing football	3
Reading story books	2
Cycling	1
Playing indoor games	1
Doing homework	1

Ch-13 Ways to multiply and divide

Key points to remember:

- Multiplication
- Do these division and check your results.
- Fill in the blanks
- Word problems
- Activity

***** Multiplication:

Example In Class 4 you learn 2- digit multiplication. In class 5 we learn 3 digit multiplication.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$x 23 201 1340 1541 a) 7747 × 696 7747 × 696 7747 × 696 46482 + 697230 + 4648200 5391912 b) 3468 × 571 3468 \\ \times 571 \\ 3468 \\ + 242760 \\ + 1734000 \\ 1980228 $	67			6	8	7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	x 23		×		2	3
1340 + 1 3 7 4 0 1541 1 5 8 0 1 7747 × 696 - - - - - 7747 × 696 - - - - - 46482 - - - - - - - - - 4648200 -	$\begin{array}{c} 1340\\ 1541 \end{array} + 1 & 3 & 7 & 4 & 0\\ \hline 1 & 5 & 8 & 0 & 1 \end{array}$ 7747 × 696 7747 × 696 46482 + 697230 + 4648200 5391912 3468 × 571	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	201		2	0	6	1
1541 1 5 8 0 1 7747 × 696 7747 × 696 46482 697230 4648200	1541 $1 5 8 0 1$ 7747×696 7747 $\times 696$ 46482 $+ 697230$ $+ 4648200$ 5391912 3468×571	1541 $1 5 8 0 1$ a) 7747 × 696 7747 × 696 46482 + 697230 + 4648200 5391912 b) 3468 × 571 3468 × 571 3468 + 242760 + 1734000 1980228	1340	+ 1	3	7	4	0
7747 × 696 7747 × 696 46482 697230 4648200	7747×696 7747 $\times 696$ 46482 $+ 697230$ $+ 4648200$ 5391912 3468×571	a) 7747×696 7747 $\times 696$ 46482 + 697230 + 4648200 5391912 b) 3468×571 $\frac{3468}{\times 571}$ $\frac{3468}{+ 242760}$ + 1734000 1980228	1541	1	5	8	0	1
	5391912 3468 × 571	5391912 b) 3468×571 $\frac{3468}{\times 571}$ $\frac{3468}{+ 242760}$ $\frac{+ 1734000}{1980228}$	a) 7747×696 7747 $\times 696$ 46482 + 697230 + 4648200	2			0	
$ \frac{3468}{\times 571} \\ + 242760 \\ + 1734000 \\ 1980228 \\ 2429 \times 482 $	2429 × 482		2429 × 482 4858 + 194320 + 971600					
$ \frac{3468}{\times 571} \\ \frac{3468}{3468} \\ + 242760 \\ + 1734000 \\ 1980228 \\ 2429 \times 482 \\ 2429 \\ \times 482 \\ 4858 \\ \cdot 194320 \\ - 971600 \\ - 9716$	$ \begin{array}{r} 2429 \times 482 \\ $	2429 × 482 4858 + 194320 + 971600	1170778					

d) 5804 × 813

	5804
	$\times 813$
	17412
+	58040
+	4643200
	4718652

e) 6329 × 721

	6329
_	\times 721
	6329
+	126580
+	4430300
	4563209

***** Do these division and check your result:

a) 3640 ÷ 15

Check: $Q \times D + R = Dd$

242 × 15 + 10 = Dd

3630 + 10 = Dd

3640 = Dd

290	
12)3480	Check: $Q \times D = Dd$
<u>-24</u>	290 × 12 = Dd
108 -108	3480 = Dd
000	

c)
$$5281 \div 15$$

334	
15 5281	Check: Q × D + R = Dd
$\frac{45}{78}$	352 × 15 + 1 = Dd
- 75	5280+ 1 = Dd
031 - 30	5281 = Dd
01	1/1 10 10

d) 4001 – 23	
1, 1001 ·	Check: $173 \times 23 + 22 = Dd$
173	3979 + 22 = Dd
23 4001	4001 = Dd
23	
170	
161	
91	
<u>_69</u>	
22	

e) 2475 ÷ 11

22 770	Check: Q × D = Dd	
- 66	35 × 22 = Dd	-
110	770 = Dd	
- 110		-
000		

Fill in the blanks:

- 1) The answer in multiplication is the **product.**
- 2) 934 × <u>726</u> = <u>934</u>× 726
- 3) <u>9728</u>×1 = 9728
- 4) 9869 ×<u>0</u> = 0
- 5) $\underline{135} \times (297 \times 517) = (517 \times \underline{297}) \times 135$
- 6) 8304 ×<u>1</u> = 8304
- 7) Quotient \times <u>divisor</u> + remainder = dividend

Word problems:

1) 945 chocolates are to be distributed among 63 students. Find the number of chocolates each student will get.

Solution: Total number of chocolates = 945

No of students = 63

The number of chocolates each student gets = $945 \div 63 = 15$

15 chocolates each student will get.

2) Soham drinks 8 glasses of water every day. How many glasses he drinks in one year?

Solution: Total glasses of water Soham he drinks = 8

No of days in one day = 365

No of glasses in one year = 365×8

Soham drinks 2920 glasses of water in one year.

3) Anita bought a battery. She read on it life 2000 hours. She uses it throughout the day and night. How many days will the battery run? Solution: life of battery = 2000 hours.

> Total hours in the day and night = 24 The battery will run = $2000 \div 24$

The battery will run 83 days and 8 hours.

4) Garima has Rs 500 with her. She wants to buy milk whose cost is Rs50 per litre. How many litters of milk can she buy?

Solution: Total money Garima has = Rs500Cost of milk per litre = Rs50Litters of milk she can buy = $500 \div 50$ = 10 litters

Garima can buy 10 litters of milk.

***** Activity:

• Look for the pattern and take this forward.

(0 × 9)	+	1	=	1
(1×9)	+	2	=	11
(12 × 9)	+	3	=	111
(123 × 9)	+	4	=	
(1234 × 9)	+	5	=	
(12345 × 9)	+	6	=	