

MONTH : NOVEMBER

SESSION: 4

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 11

CHAPTER NAME : AVERAGE

SUB-TOPIC : INTRODUCTION, EXERCISE 11 A Q. NO.1 & 2

CHANGING YOUR TOMORROW

Website: www.odmegroup.org Email: info@odmps.org

Toll Free: 1800 120 2316

Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024



LEARNING OBJECTIVE :

Enable the students

- To know the use of the word "Average"
- Know about the concept of average
- Need of finding average
- Finding average of given data





Kohli's stunning 2016

12	4444	and his second		
12	1215	75.93	60.41	4/2
10	739	92.37	100.00	3/4
15	641	106.83	140.26	0/7
16	973	81.08	152.03	4/7
	10 15 16	10 739 15 641 16 973	1073992.3715641106.831697381.08	1073992.37100.0015641106.83140.261697381.08152.03

Have you ever heard of the word "Average"?





In math, an average is a number obtained by **adding a group of numbers**, then **dividing the sum** by the number of **numbers** there were.

Example : What is the average height of these 5 people?



Average = Sum of the heights Number of people

$$= \frac{840}{5}$$
 = 168 cm.







From the above example it is clear that

- An average is a number which roughly between the smallest and the largest number / quantity.
- \diamond It gives an idea of the general value of a group.
- The average is the arithmetical mean value of the number of given values/ quantities.





I. Find the average	
a) 50, 41, 47, 48, 40, 44	Ь) 10, 20, 30, 40, 50, 60, 70, 80, 90, 100
Average = <u>Sum of the quantities</u> Number of quantities	Average = Sum of the quantities Number of quantities
$\frac{50 + 41 + 47 + 48 + 40 + 44}{6}$ $\frac{270}{6} = 45$	=10 + 20 + 30 + 40 + 50 + 60 + 70 + 80 + 90 + 100 $= 550 = 55$





I. Find the average	
c) 35, 42, 31, 53, 16, 34, 27	d) 24, 21, 26, 25, 18, 20, 27, 23
Average = <u>Sum of the quantities</u> Number of quantities	Average = Sum of the quantities Number of quantities
<u>= 35 + 42+ 31+ 53 + 16+ 34 + 27</u> 7	= <u>24 + 21 + 26 + 25 + 18 + 20 + 27 + 23</u> 8
$\frac{-238}{7}$ = 34	$\frac{=184}{8}$ = 23





➢ I. Find the average

e)
$$\frac{3}{8}$$
, $1\frac{1}{4}$, $2\frac{5}{6}$, $4\frac{1}{2}$, $6\frac{4}{3}$
= $\frac{3}{8} + \frac{5}{4} + \frac{17}{6} + \frac{9}{2} + \frac{22}{3}$
L.C.M. of 8, 4, 6, 2, 3 = 24
 $\frac{=9 + 30 + 68 + 108 + 176}{24}$
= $\frac{391}{24}$

The number of quantities given = 5

Average =
$$\frac{391}{24} \div 5 = \frac{391}{24} \times \frac{1}{5} = \frac{391}{120} = 3\frac{31}{120}$$





2. The rainfall in Jamshedpur for 6 consecutive years was 28.5 cm, 30.25cm, 32.4 cm, 31.6cm, 24cm and 30.25cm. Find the average rainfall of Jamshedpur.

Solution:

The rainfall for 1st year= 28.5 cm

The rainfall for 2nd year= 30.25 cm

The rainfall for 3^{rd} year= 32.4 cm

The rainfall for 4^{th} year= 31.6 cm

The rainfall for 5^{th} year = 24 cm

The rainfall for 6^{th} year = 30.25 cm







Average = <u>Sum of the quantities</u> Number of quantities

= <u>28.5 + 30.25 + 32.4 + 31.6 + 24 + 30.25</u> 6

 $\frac{= 177}{6}$ = 29.5 cm

Thus the average rainfall of Jamshedpur is **29.5 cm.**





Complete exercise II A Q.No. 3 & 4 in the note book.





Students are able to:

- ***** Find the average of given data
- Understand the concept and use of the word "Average"



THANKING YOU ODM EDUCATIONAL GROUP