

INTERNATIONAL INDIAN SCHOOL
BURAI DAH

Worksheet For The Academic Year 2024-25

CLASS: VIII SUBJECT: Mathematics DATE: 12/09/2024

LESSON-13 Direct & Inverse Proportion

- 1) In _____ proportion both quantities either increase or decrease together.
- 2) In _____ proportion when one quantity increase the other decreases and vice-versa.

3) Check whether the following quantities are in Direct or Inverse proportion:

a)

x	7	14	28	42	56
y	14	28	56	84	112

b)

x	45	75	3	15
y	60	100	4	20

c)

x	4	5	6	8	10
y	30	24	20	15	12

d)

x	2	10	25	250
y	625	125	50	5

4) The cost of 15 notebooks is Rs 330.

(i) Find the cost of 45 notebooks.

(ii) How many notebooks can be bought for Rs 374?

5) The cost of 3m of cloth is Rs 168. Find the cost of 17m of cloth.

6) If 100 apples are packed in one carton, 20 cartons are used.

(i) If 80 apples are packed in one carton , how many cartons are used?

(ii) How many apples can be packed in one carton if 40 such cartons are used?

7) A contractor employs 56 workers to lay a road in 15 days. But they completed the work in 10 days. How many workers did he employ?

8) If 52km is covered in 6 hrs , find the time taken to cover 78km at the same speed.

- 9) In a camp ,45 men had provisions for 30 days. How long will the provisions last if there are only 27 men?
- 10) An automatic machine in a factory fills 1000 milk bottles in 3 hrs. How many such bottles can be filled in $19\frac{1}{2}$ hrs by the machine?
- 11) A car goes a speed of 50km/h. At the same speed find the distance covered in 4 hrs.
- 12) A canal is dug by 32 men in 15 days. If there are only 12 men , how long will it take to finish the work?
- 13) Fill in the missing values:

a) Directly Proportional

x	8		13	
y		16	52	64

b) Inversely Proportional

x	12	15		30	
y		8	6		60

ANSWERS

- 4) a) Rs 990 b) 17 notebooks
- 5) Rs 952
- 6) a) 25 cartons b) 50 apples
- 7) 84
- 8) 9 hrs
- 9) 50 days
- 10) 6500 bottles
- 11) 200km
- 12) 40 days