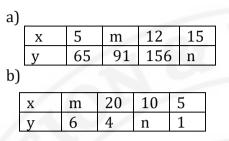
PERL EDUCATION



DIRECT AND INVERSE VARIATION

1. Find the value of m and n in the given table if x and y vary directly.



- 2. A laborer earns 250 per day, how much will he earn in 31 days?
- 3. A manufacturer produces 2080 toys in a day. Working at the same rate how many toys will it produce in $4\frac{1}{2}$ days?
- 4. The cost of 6 kilograms of rice is Rs. 665.40. How much rice can be bought for Rs. 499.05?
- 5. 260 ml of milk can be filled in one bottle. How many such bottles are required to fill 41.6 litres of milk?
- 6. 2 boxes of cherries cost 350. What will be the cost of 5 such boxes?
- 7. Ali can read 40 words In a minute. How many woods will he be able to read in 12 minutes, If he continues to read at the same speed?
- 8. A car can cover a distance of 21 km with 1.5 litres of petrol. How much distance will the car cover with 20 litres of petrol?
- 9. The cost of $62\frac{1}{2}$ m of cloths is Rs.1525. Find the cost of 280m of cloth.
- 10. A tap can fill $\frac{2}{15}$ th a tank in 8 minutes.
 - a) how much of the tank will be filled in 20 minutes?
 - b) how much time Will it take to fill the whole tank?
- 11. 15 people can complete 5 projects in a week, how many projects can be completed by 12 people in a week?
- 12. The cost of a pizza varies directly with its size. If a 6 inch pizza caste 120, what will be the cost of an l2inch pizza?

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DIRECT AND INVERSE VARIATION

MATHEMATICS

CLASS 8TH

1. Find the value of m and n in the given table if x and y vary inversely

a.				
Х	3	4	Ν	6
у	60	М	36	30
b.				
		-		
Х	2	4	5	n
Y	М	65	52	20

- 2. 8 men can complete a work in 12 days. In how many days can 6 men complete the same work?
- 3. 16 men can build a wall In 25 days. How many days will 20 men take to build the same wail?
- 4. In a boy's hostel, there is enough ration for 125 students to last for 21 days, How long will the food last it 50 more students join them?
- 5. 22 men can reap a field in 15 days. how many days will 55 men take to do the same work?
- 6. 4 painters can paint a house in 6 days, how many days would 3 painters take to paint the same house?
- 7. 3 tractors can plough a field in 6.5 h, how much time will 5 tractors take to plough the same field?
- 8. 6 pipes running together can fill a tank in 36 minutes. Considering that water flows through all the pipes at a constant rate, how much time will 9 pipes take to fill the same tank?
- 9. The length of a rectangle is inversely proportional to its breadth. When the length is 5 m the breadth is 2 m, what will be the length if the breadth is 2.5 m?

Formative assessment

- 1. Fill in the blanks.
 - a) The distance travelled by a car varies _____ to the time taken.
 - b) The number of people completing a project varies ______to the number of days taken.
 - c) The length of a rectangle varies _____ to its area.
 - d) Variation when $\frac{x}{y} = k$ is ______ variation.

2. State true or false.

- a) More men take more time to finish a job.
- b) In direct proportion if the value of a quantity is doubled, then the oilier quantity becomes half.
- c) Two quantities are in inverse proportion it x × y is a constant.
- 3. 14 men working 9 hours a day can earn Rs.54880 in a week. How much will 18 men working 9 hours a day earn in a week?
- 4. 6 pumps can empty a tank In 12 hours. how many pumps will empty the tank in 18 hours?
- 5. The price of 80 metres of cable wire is Rs.560. What will be the price of 125 m of cable wire?

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DIRECT AND INVERSE VARIATION

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