



# MATHS

## BOOKS - NAVNEET PUBLICATION

### DIRECT PROPORTION AND INVERSE PROPORTION

#### Question Bank

1. If 7 kg of onions cost ₹ 140, how much must we pay for 12 kg of onions?



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2. If ₹ 600 can buy 15 bunches of cattle feed, how many bunches of cattle feed can ₹ 1280 buy ?



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3. For 9 cows, 13 kg 500 g of food supplement are required every day. In the same proportion, how much will be needed for 12 cows ?



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4. 12 quintals of soya bean costs ₹ 36,000.

What is the cost of 8 quintals of soya bean ?



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5. The cost of 2 mobiles is ₹ 16,000. How much money will be required to buy 13 such mobiles ?



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6. If 12 labourers take 70 days to complete one work, how many days will 21 labourers take to complete the same work?



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7. Students of a certain school went for a picnic to a farm by bus. Here are some of their experiences. Say whether the quantities in each are in direct or in inverse proportion.



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8. Five workers take 12 days to weed a field. How many days would 6 workers take ? How many days would 15 workers take ?



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9. Mohanrao took 10 days to finish a book, reading 40 pages every day. How many pages must he read in a day to finish it in 8 days ?



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**10.** Mary cycles at the speed of 6 km/h. How long will she take to reach her aunt's house which is 12 km away? How long will she take, if she cycles at the speed of 4km/h?



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**11.** The stock of grain in a government warehouse lasts 30 days for 4,000 people. How many days will it last for 6,000 people ?



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**12.** Sandeep and Manish invested ₹ 21,000 and ₹ 27,000 respectively and started a business. They made a profit of ₹ 4,800. What amount will each of them get ?



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**13.** Ayesha, Anita and Ashwini started a business by investing ₹ 36,000, ₹ 42,000 and ₹ 48,000, respectively. They made a profit of

20 % in this business. How should they share the profit ?



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**14.** Suresh and Ramesh together invested ₹ 1,44,000 in the ratio 4:5 and bought a plot of land. After some years they sold it at a profit of 20 % . What profit did each of them get ?



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**15.** Virat and Samrat started a business by investing ₹ 50,000 and ₹ 1,20,000 respectively. In this business they suffered a loss of 20%. How much loss did each of them incur ?



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**16.** Shweta, Piyush and Nachiket together invested ₹80,000 and started a business of selling sheets and towels purchased from Solapur. Shweta's share of the capital was ₹

30,000 and Piyush's ₹ 12,000. At the end of the year they made a profit of 24%. What was Nachiket investment and what was his share of the profit ?



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17. A and B shared a profit of ₹24,500 in the proportion 3:7. Each of them gave 2% of his share of profit to the Soldier's Welfare Fund. What was the amount given to the Fund by each of them ?



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**18.** Jaya, Seema, Nikhil and Nilesh invested ₹ 3,60,000 in a business in the proportion 3:4:7:6. What was Jaya's actual share in the capital? They made a profit of 12%. How much profit did Nikhil make ?



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**19.** The cost of 2 notebooks is ₹45. What is the cost of 8 notebooks ?



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**20.** A car takes 4 hours to cover a certain distance at the speed of 30km/h. If the speed of the car is increased, will it take more or less time to cover the same distance ?



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**21.** A and B invested some amount in a business in the ratio 2:3. If there is a profit of

₹5,000 what is the share of B?



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22. How much is the profit at 8 % on ₹ 500 ?



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