

DIRECT AND INVERSE PROPORTION

EXTRA QUESTIONS

1. 15 men can build a wall in 42 hours, how many workers will be required for the same work in 30 hours?
2. The cost of 5 metres of cloth is ₹ 210. Tabulate the cost of 2, 4, 10 and 13 metres of cloth of the same type.
3. Six pumps working together empty a tank in 28 minutes. How long will it take to empty the tank if 3 such pumps are working together?
4. A garrison of 120 men has provisions for 30 days. At the end of 5 days, 5 more men joined them. How many days can they sustain on the remaining provision?
5. 5 pipes are required to fill a petrol tank in 2 hours 20 minutes. How long will it take if only 4 pipes of the same type are used?
6. The principal sanctioned a certain amount to the librarian to purchase some Mathematics books for the school library. She could buy 80 books costing Rs 90 each from the local book seller. There she approached to the publisher who offered her a 20% discount.
 - i) Find the number of copies of Mathematics books which she could buy from the publisher for the sanctioned money.
 - ii) Find the total money required to buy the copies of mathematics books.
 - iii) If the discount is given 10% then how many copies of mathematics books can be bought?
 - iv) If the librarian buys science book instead of mathematics books each costing Rs. 110, then how many science books can be bought for the sanctioned money?
 - v) If the discount on science books is given 25% then how many science books can be bought for the sanctioned money?