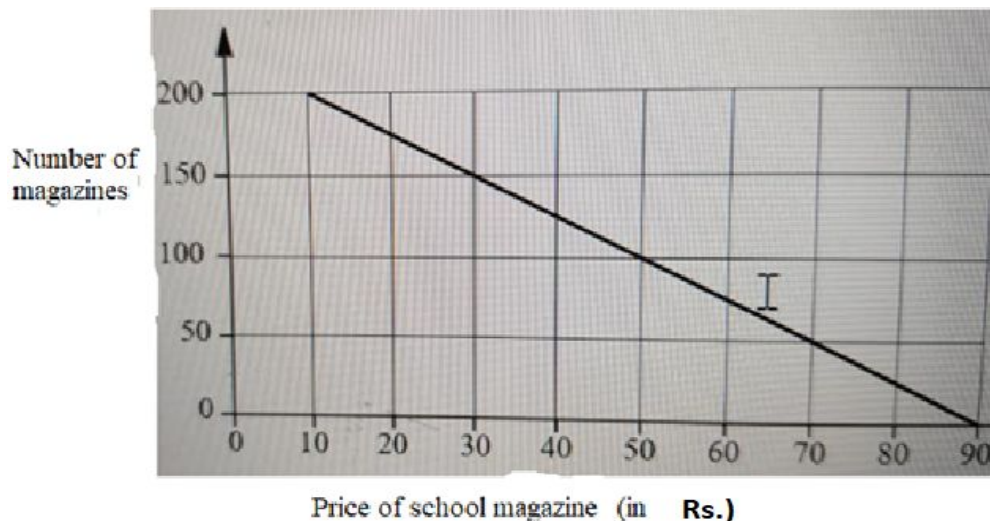


School Magazine

To help an NGO working for the elderly, students of a School in a city planned to sell their school magazine. For this, they wanted to find out the best price.

When the price was Rs.50 for each magazine, they sold 100 magazines. When the price was Rs.70 for each magazine, they sold 50 magazines only.

They drew the graph shown below using this information.



Use the graph to answer these questions.

Question 1 What is the price at which no-one will buy the magazine?

Question 2. What was the price of each magazine, when the students were able to sell 150 of them?

Question 3. Complete the table:

Price (in Rs.)	Number of magazines sold	Total money received (in Rs.)
10		
30		
40		
50	100	5000
70		3500
90		

Use the table in Question 3 to answer the next questions:

Question 4. If the total printing cost is Rs.1500 for 100 magazines, at what cost should the magazine be sold to get maximum profit?

Question 5. The line in the above graph is represented by the linear equation

$ax + by = c$ where x represents the price of magazine and y is the number of magazines.

Choose the correct equation which accurately represents the above graph

- a) $2x + 6y = 620$
- b) $5x + 2y = 450$
- c) $2x + 5y = 1040$
- d) $4x + 3y = 640$

Answers:

Answer 1. Rs. 90

Answer 2. Rs.30

Answer 3.

Price (in Rs)	Number of magazines sold	Total money received (in Rs.)
10	200	2000
30	150	4500
40	125	5000
50	100	5000
70	50	3500
90	0	0

Answer 4. Rs. 50

Answer 5. Option (b)

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