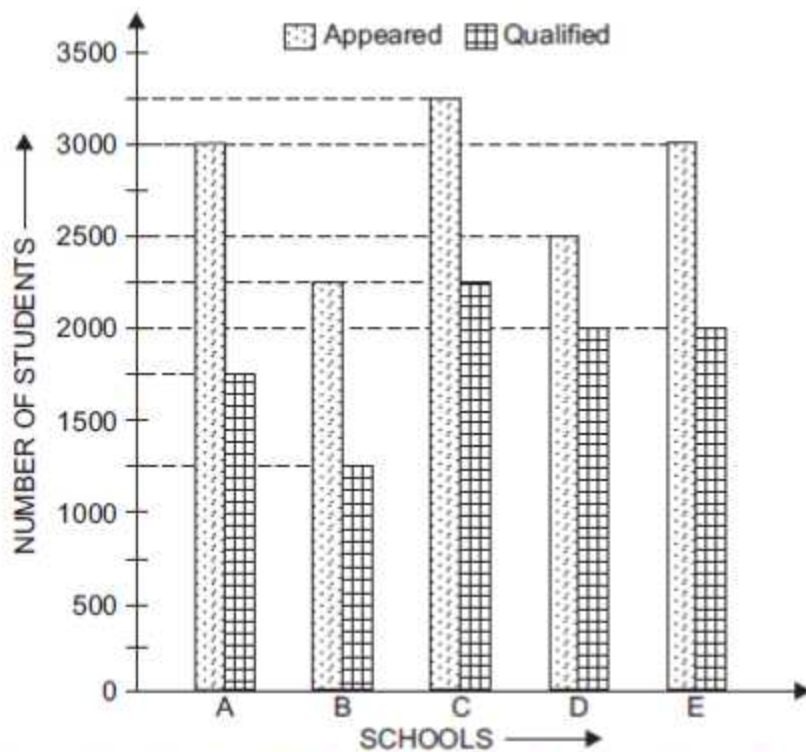


Study the following graph carefully and answer the questions given below:

Total number of Students Appeared and qualified from various Schools at a Scholarship Exam.



Question – 1

1. The average number of students qualified in the examination from Schools C and D is what percent of the average number of students appeared for the examination from the same schools?

- a. 58.62
- b. 73.91
- c. 62.58
- d. 58.96 → B

Ans:

Average number of students qualified from C and D

$$= \frac{1}{2}(2250 + 2000) = \frac{4250}{2} = 2125.$$

Average number of students appeared from C and D

$$= \frac{1}{2}(3250 + 2500) = \frac{5750}{2} = 2875.$$

$$\text{Required\%} = \left(\frac{2125}{2875} \times 100 \right) \% = \left(\frac{85}{115} \times 100 \right) \%$$

$$= \left(\frac{1700}{23} \right) \% = 73.91\%.$$

2. What is the ratio of the numbers of students appeared to the number of students qualified at the scholarship exam from School C?

a. 7 : 12

b. 6 : 5

c. 9 : 13

d. 13 : 9 → d

Ans:

(Number of students appeared from C): (Number of

$$\text{students qualified from C}) = \frac{3250}{2250} = \frac{13}{9} = 13 : 9.$$

3. What is the ratio of the number of students qualified in the scholarship examination from School A and the number of students qualified in the examination from School B?

a. 8 : 3

b. 5 : 7

c. 7 : 3

d. 7 : 5 → E

Ans:

(Number of students qualified from A): (Number of stu-

$$\text{dents qualified from B}) = \frac{1750}{1250} = \frac{7}{5} = 7 : 5.$$

4. The number of students appeared for the scholarship exam from School D is approximately what percent of the total number of students appeared for the exam from all the schools together?

- a. 12
- b. 24
- c. 29
- d. 18 → D

Ans:

Required%

$$= \left\{ \frac{2500}{(3000 + 2250 + 3250 + 2500 + 3000)} \times 100 \right\} \%$$
$$= \left(\frac{2500}{14000} \times 100 \right) \% = \frac{125}{7} \% = 18\% \text{ (nearly).}$$

5. What is the difference between the average number of students appeared in the scholarship exam from all the given schools and the average number of students qualified from all the schools together?

- a. 950
- b. 1100
- c. 990
- d. 1020 → A

Ans:

Average number of students appeared from all the schools

$$= \frac{1}{5}(3000 + 2250 + 3250 + 2500 + 3000)$$

$$= \frac{14000}{5} = 2800.$$

Average number of students qualified from all the schools

$$= \frac{1}{5}(1750 + 1250 + 2250 + 2000 + 2000)$$

$$= \frac{9250}{5} = 1850.$$

Required difference = $(2800 - 1850) = 950$.