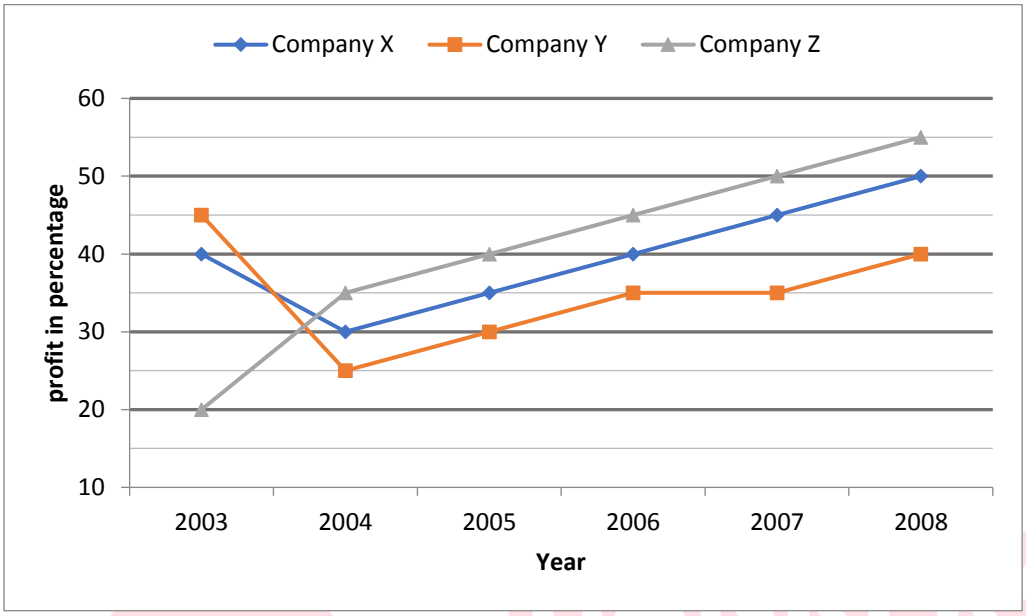
Quiz Date: 22nd July 2020

Directions (1-5): **Study the graph carefully to answer the questions that follow:**

PERCENT INCREASE IN PROFIT OF THREE COMPANIES OVER THE YEARS



Q1. What was the approximate per cent increase in profit of company Y in the year 2008 from the previous year?
(a) 2
(b) 10
(c) 20
(d) 14
(e) 24

Q2. What was the approximate percent increase in the profit percent of company Z in the year 2005 from the previous year?
(a) 14
(b) 21
(c) 8
(d) 26
(e) 19

Q3. If the profit earned by company X in the year 2004 was Rs. 2,65,000 and expenditure is same for each year, what was its profit in the year 2006?
(a) Rs. 6,21,560
(b) Rs 4,68,290
(c) Rs 7,05,211
(d) Rs 5,00,850
(e) None of these

Q4. What is the average per cent increase in profit of company Z over the years?

(a) $40\frac{5}{6}$

(b) $41\frac{2}{3}$

(c) $28\frac{1}{6}$

(d) $23\frac{1}{3}$

(e) 25

Q5. Which of the following statements is TRUE with respect to the graph?

(a) Company X incurred a loss in the year 2004

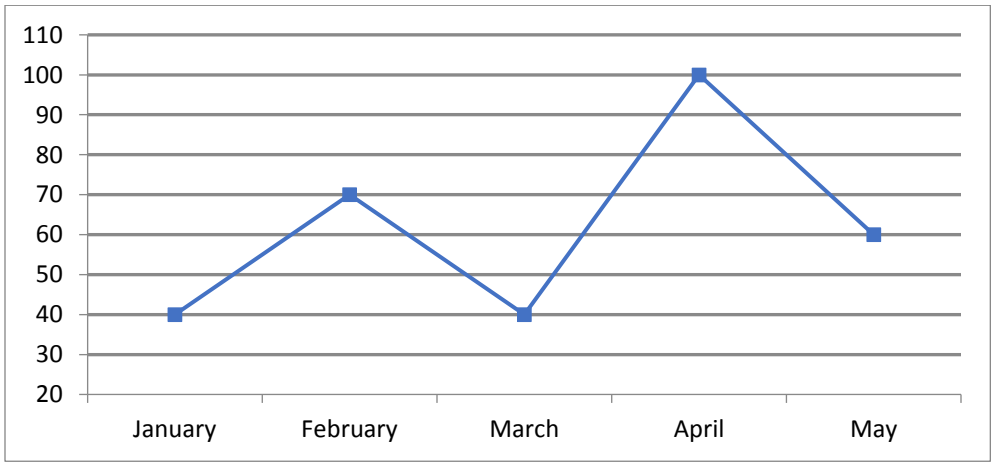
(b) The amount of profit earned by company Y in the years 2006 and 2007 is the same

(c) Company Z earned the highest profit in the year 2008 as compared to the other years

(d) Profit earned by company X in the year 2004 is lesser than the profit earned by company Z in that year

(e) None of these

Directions (6-10): Line graph shows the percentage of females participating in the Yoga event out of total participant in five different months.



Total participant = Male Participant +female participant

Q6. Male participant in January is 20% more than that in February. Female participant in February is what percent of that in January.

(a) $291\frac{2}{3}\%$
(b) $191\frac{2}{3}\%$
(c) 290%
(d) 190%
(e) $295\frac{2}{3}\%$

Q7. Male and female child participant in March is in ratio 2 : 1. If adult male to adult female ratio is 4 : 3 then find the percentage of adult male participant in same month.

(a) 30%
(b) 50%
(c) 35%
(d) 40%
(e) 44%

Q8. Ratio of adult and child participant in May is 3 : 4 and male participant in May is 280. Find the number of child participants.

(a) 300
(b) 350
(c) 280
(d) 250
(e) 400

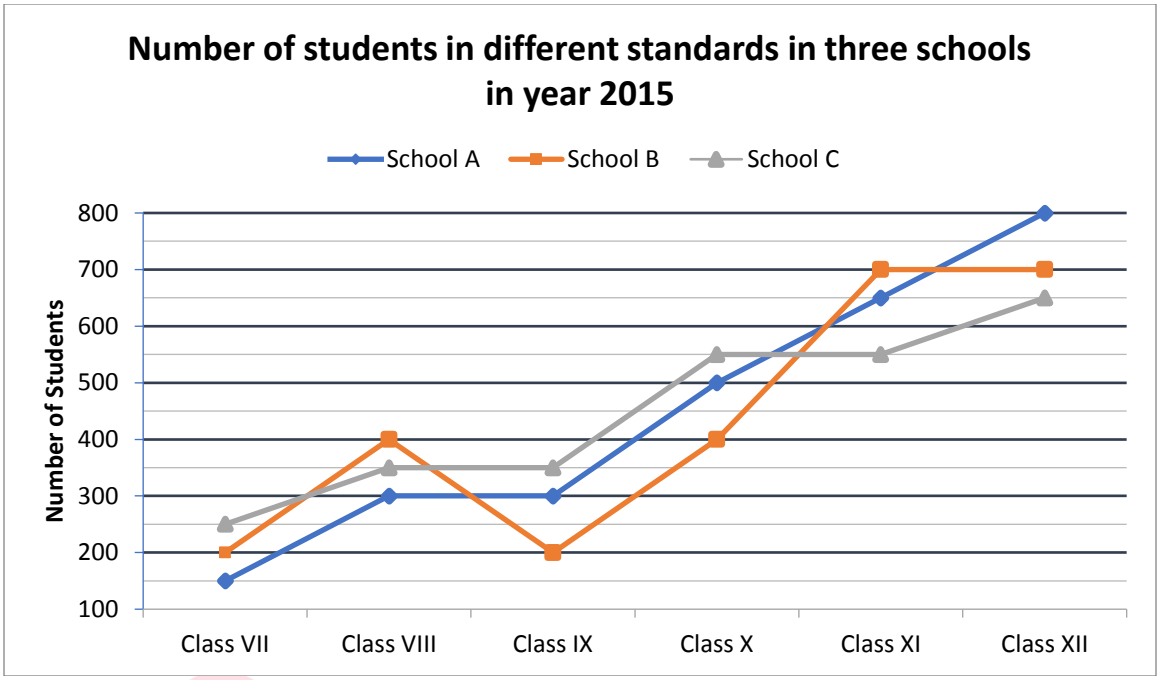
Q9. No. of participant increase in April by 20% from previous month. Find the percentage increase in female participant.

(a) 300%
(b) 200%
(c) 100%
(d) 250%
(e) 400%

Q10. If number of participant in every month is 500 .Then find average number of male participant in all five months.

(a) 250
(b) 300
(c) 190
(d) 200
(e) 180

Directions (11-15): Study the following graph carefully to answer the questions given below.



Q11. In year 2016 the number of students of class XII in three schools A, B and C increase by 5%, 10% and 20% respectively with comparison to the last year in same class. Find the ratio of students in class XII of all schools in 2016 ?
(a) 84:78:77
(b) 84:77:78
(c) 88:77:78
(d) 8:7:9
(e) None of these

Q12. By what percent the number of students in class IX in school C is less than total students in class XII in all the three schools together (find approximate value)?
(a) 84%
(b) 68%
(c) 75%
(d) 80%
(e) 58%

Q13. What is average number of students in school A in all grades taken together?
(a) 456
(b) 465
(c) 450
(d) 460
(e) 470

Q14. What is respective ratio of the total students in all the standards in all three schools A, B and C ?
(a) 27 : 26 : 27

(b) 23 : 13 : 9
(c) 9 : 13 : 26
(d) 3 : 13 : 11
(e) 9 : 26 : 9

Q15. The number of students in class VIII of the school B is what percent of total students in same school in all the standards ?
(a) 15.4%
(b) 16.8%
(c) 18.2%
(d) 20%
(e) 12.5%

Solutions

S1. Ans.(d)
Sol.
$$\text{\% increase in profit of company Y in 2008}$$
$$= \frac{40-35}{35} \times 100$$
$$= \frac{5}{35} \times 100$$
$$\simeq 14\%$$

S2. Ans.(a)
Sol.
$$\text{\% increase in profit of company Z in 2005}$$
$$= \frac{40-35}{35} \times 10$$
$$= 14.14$$
$$\simeq 14\%$$

S3. Ans.(d)
Sol.
$$\text{Required profit}$$
$$= \text{Rs.}\left(2{,}65{,}000 \times \frac{135}{100} \times \frac{140}{100}\right) = \text{Rs. } 500850$$

S4. Ans.(a)

Sol.

Average % increase in profit of Z over the years

$= \frac{1}{6} \times (20 + 35 + 40 + 45 + 50 + 55)$

$= \frac{1}{6} \times 245$

$= \frac{245}{6}$

$= 40\frac{5}{6}$

S5. Ans.(c)

Sol.

Company Z earned the highest profit in 2008 as compared to other years.

S6. Ans.(a)

Sol.

Let male participant in February = 100x

So male participant in January = 120x

Female participant in January $= \frac{120x}{60} \times 40 = 80x$

Female participant in February $= \frac{100x}{30} \times 70 = \frac{700}{3}x$

Required % $= \frac{700x}{3 \times 80x} \times 100$

$= 291\frac{2}{3}\%$

S7. Ans.(d)

Sol.

Let, male child and female child participant in march is 2x and x respectively

And,

Adult male and adult female is 4y and 3y respectively

$now, (2x + 4y)\frac{100}{60} = \frac{(x + 3y)}{40} \times 100$

Solving ⇒ x = y

percentage of adult male participant $= \frac{4}{(2+4+1+3)} \times 100 = 40\%$

S8. Ans.(e)

Sol.

Male participant = 280

Total participant $= \frac{280}{40} \times 100 = 700$

Child participant $= 700 \times \frac{4}{7} = 400$

S9. Ans.(b)

Sol.

Let, total participant in March = 100x

Participant in April $= \frac{100x \times 120}{100} = 120x$

Female participant in March = 40x

Female participant in April = 120x

Required % $= \frac{(120x - 40x)}{40x} \times 100$

= 200%

S10. Ans.(c)

Sol.

Required Average $= \frac{1}{5}\left\{\frac{60\times500}{100} + \frac{30\times500}{100} + \frac{60\times500}{100} + \frac{0\times500}{100} + \frac{40\times500}{100}\right\}$

$= \frac{1}{5} \times \{300 + 150 + 300 + 0 + 200\}$

= 190

S11. Ans.(b)

Sol.

In 2016, number of students in class XII of

School A $= \frac{105}{100} \times 800 = 840$

School B $= \frac{110}{100} \times 700 = 770$

School C $= \frac{120}{100} \times 650 = 780$

So, required ratio = 840:770:780 = 84:77:78

S12. Ans.(a)

Sol.

Required percentage

$= \frac{2150 - 350}{2150} \times 100 \approx 84\%$

S13. Ans.(c)

Sol.

Required average

$= \frac{1}{6}(150 + 300 + 300 + 500 + 650 + 800)$

$= \frac{1}{6} \times 2700 = 450$

S14. Ans.(a)

Sol.

Students in school A = 2700

Students in school B = 2600

Students in school C = 2700

So, ratio = 27:26:27

S15. Ans.(a)

Sol. $$\text{Required percentage} = \frac{400}{2600} \times 100 \approx 15.4\%$$

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