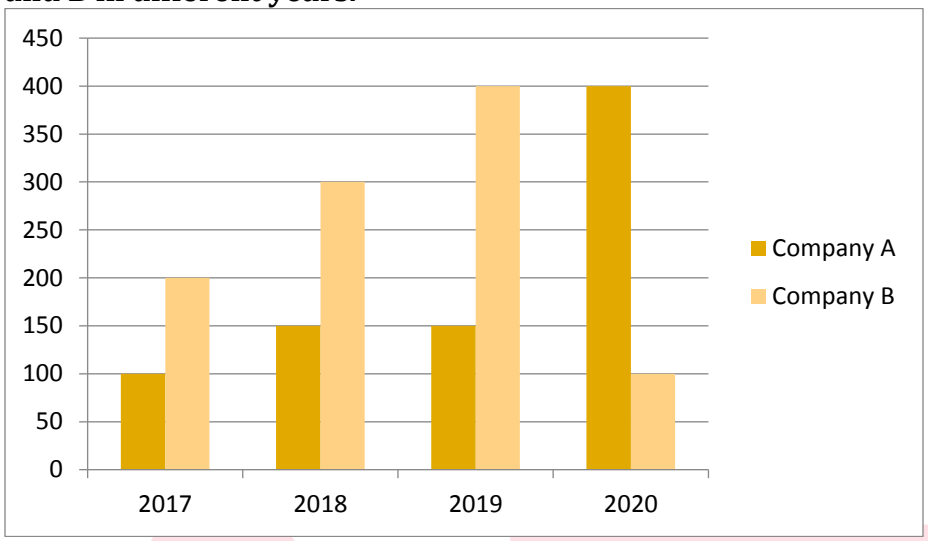
Quiz Date: 6th June 2020

Direction (1-5): Following Bar Graph shows the production data of two Companies A and B in different years.



Q1. What is average production of company A in all the 4 years ?
(a) 100
(b) 200
(c) 300
(d) 150
(e) 225

Q2. Production of Company B in 2018 is what percent of total production in year 2020?
(a) 60%
(b) 75%
(c) 300%
(d) 150%
(e) 70%

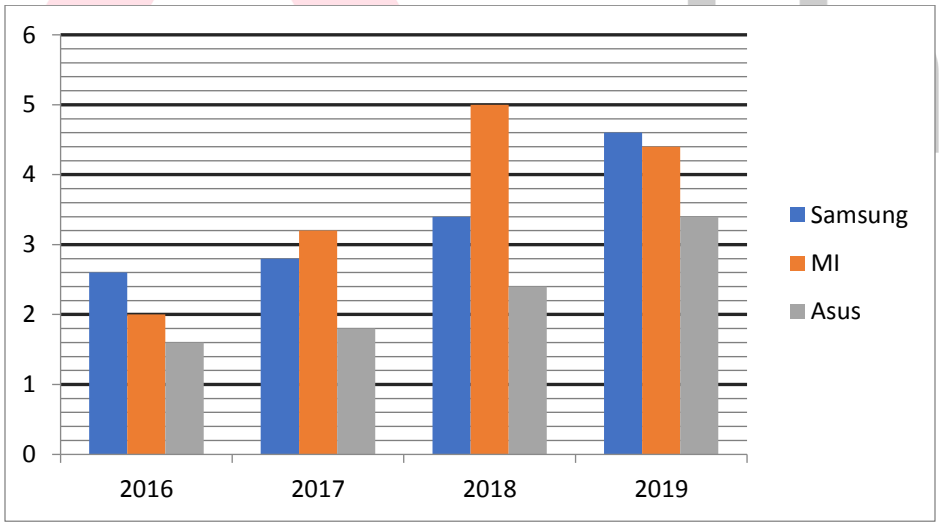
Q3. What is difference between total production of Company A and Company B in all 4 years?
(a) 100
(b) 200
(c) 300
(d) 400
(e) 500

Q4.what is ratio of total production of company A in year 2018 and 2019 together and Company B in year 2018?
(a) 2:3
(b) 1:4

(c) 1:3
(d) 3:1
(e) 1:1

Q5. Total Production of Company B in all the years is how much percent more/less than the total production of Company A in all the years?
(a) 25%
(b) 20%
(c) 30%
(d) 10%
(e) 15%

Directions (6-10): following bar graph shows the different unit of mobiles sold by different companies in different years. Study the graph carefully and answer the following questions.
NOTE : Sales of each brand are in thousands.



Q6. Total mobiles sold in year 2016 are what percent of total mobiles sold in 2019?
(a) 25%
(b) 75%
(c) 50%
(d) 40%
(e) 60%

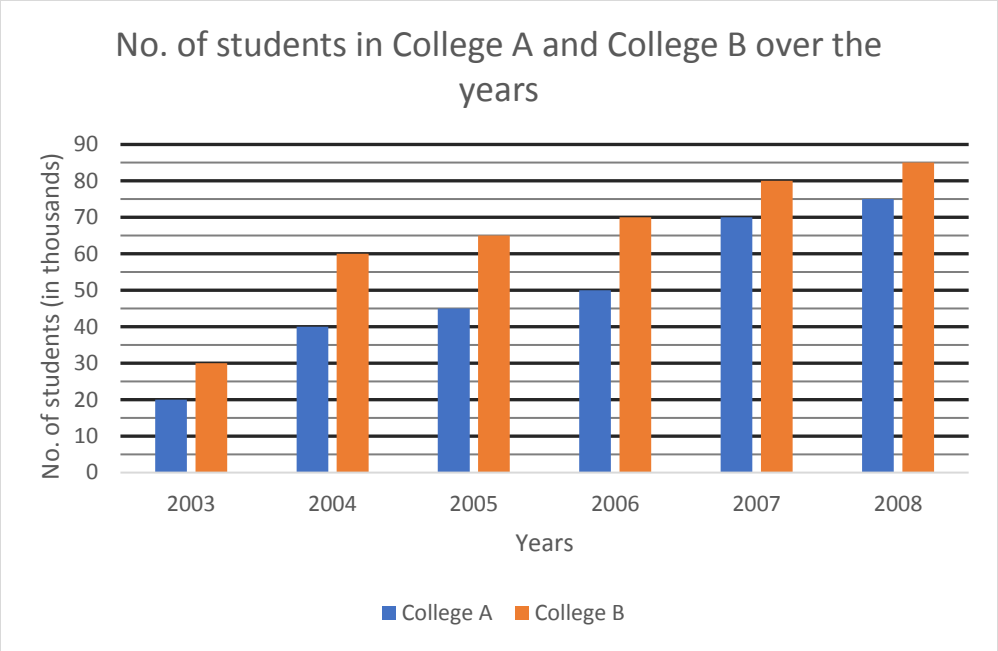
Q7. What is ratio of mobiles sold by Samsung in 2016, 2017 and 2018 together to the mobiles sold by MI in 2017, 2018 and 2019 together.
(a) 63:44
(b) 44:63
(c) 44:47
(d) 47:63
(e) 51:80

Q8. What is difference between average mobile sold by Samsung and average mobile sold by Asus in all the years.
(a) 105
(b) 1050
(c) 1550
(d) 155
(e) 1250

Q9. If one Samsung mobile costs 10,000 Rs ,one MI mobile costs 8,000 Rs and one Asus mobile costs 6,000 Rs then what is total revenue generated by all the companies together in 2019
(a) 101600000 Rs
(b) 101500000 Rs
(c) 102600000 Rs
(d) 103600000 Rs
(e) 100500000 Rs

Q10. What is difference between total mobile sold in all year by Samsung and Asus together to the mobile sold by MI?
(a) 4000
(b) 9600
(c) 8000
(d) 8800
(e) 7700

Directions (11-15): Study the following graph carefully to answer these questions :



Q11. For which college(s) and in which year was the percent rise in number of students from the previous year the highest ?
(a) College A in year 2004 and college B in year 2005
(b) Only College B in year 2004
(c) College A in year 2004 and College B in year 2004
(d) College A in year 2007 and College B in year 2004
(e) None of these

Q12. What is the ratio of the total number of students of College A in years 2004, 2006 and 2007 together and the total number of students of College B in years 2003, 2004 and 2008 together?
(a) 35 : 32
(b) 33 : 37
(c) 34 : 31
(d) 32 : 35
(e) 32 : 37

Q13. What is the average number of students in College A for all the years together?
(a) 45,000

(b) 50,000
(c) 52,000
(d) 48,000
(e) 46,000

Q14. What is the approximate percentage rise in the number of students of College B from 2005 to 2006 ?
(a) 8
(b) 12
(c) 4
(d) 10
(e) 6

Q15. The number of students of College B in year 2008 is what percent of the total students of College B in all the years together (Round off to two digits after decimal)
(a) 20.61
(b) 23.79
(c) 21.79
(d) 17.29
(e) 22.69

Solutions

S1.Ans(b)
Sol. Average of company A of all 4 years = $\frac{100+150+150+400}{4}$ = 200.

S2.Ans (a)
Sol. Production of Company B in 2018=300
Total Production in 2020= 400 + 100 = 500
Required percentage = $\frac{300}{500} \times 100 = 60\%$

S3.Ans(b)
Sol. Total production of Company A= 100+150+150+400 = 800
Total production of Company B=200+300+400+100= 1000
Difference =1000-800=200

S4.Ans(e)
Sol. Total production of company A in year 2018 and 2019 = 150+150=300
Production of Company B in year 2018=300
Required Ratio = 1:1.

S5.Ans(a)
Sol. Total production of Company A= 100+150+150+400 = 800
Total production of Company B=200+300+400+100= 1000

$\therefore required\ percentage = \frac{(1000-800)}{800} \times 100 = 25\%$

S6. Ans(c)
Sol. Total Mobile sold in year 2016 = 2600+ 2000+1600=6200
Total Mobile sold in year 2019= 4600+4400+3400 = 12400
$\therefore$ required percentage $= \frac{6200}{12400} \times 100 = 50\%$

S7. Ans(b)
Sol. Mobile Sold by Samsung in 2016, 2017 and 2018 together = 8800
Mobile sold by MI in 2017, 2018 and 2019 together = 12600
$\therefore required\ ratio = 8800 : 12600$
= 44:63

S8.Ans(b)
Sol. Average mobile sold by Samsung = $\frac{2600+2800+3400+4600}{4} = \frac{13400}{4}$
Average mobile Sold by Asus = $\frac{1600+1800+2400+3400}{4} = \frac{9200}{4}$
Required difference = $\frac{13400}{4} - \frac{9200}{4} = \frac{4200}{4} = 1050$

S9.Ans(a)
Sol. Total revenue generated= $10000 \times 4600 + 8000 \times 4400 + 6000 \times 3400 =$ 101,600,000 Rs

S10.An(c)
Sol. Total mobile sold by Samsung and asus= 22600
Total mobile sold by MI = 14600
Required difference = 8000

S11. Ans.(c)
Sol. By mental calculation we can see that
% Rise of students of College A is 2004 = 100%
% Rise of students of college B in 2004 = 100%

S12. Ans.(d)
Sol. Required ratio = (40 + 50 + 70): (30 + 60 + 85)

= 160 : 175
= 32 : 35

S13. Ans.(b)
Sol. Required average = $\frac{300}{6} = 50\text{units}$
$= 50 \times 1000 \quad \therefore (unit = 1000)$
$= 50{,}000$

S14. Ans.(a)
Sol. Required % = $\frac{70-65}{65} \times 100$
$= \frac{100}{13} \approx 8\%$

S15. Ans.(c)
Sol. Required % = $\frac{85}{390} \times 100$
= 21.79%