Quiz Date: 18th February 2020

Directions (1- 5): Study the table given below carefully and answer the given question
The table shows the percentage distribution of products sold by five shopkeepers. Some data is given in percentage form and some as fixed value.
Note: The shopkeeper sells only these three products.

Shopkeeper	Products		
	Watch	Shoes	Shocks
P	34%	44%	484
Q	48%	28%	2304
R	13%	67%	1040
S	18%	42%	1280
T	15%	60%	1550

Q1. Number of watches sold by shopkeeper P is how much more or less than the number of shocks sold by shopkeeper T?
(a) 812
(b) 802
(c) 902
(d) 822
(e) 912

Q2. What is the ratio of number of total watches and shoes sold by shopkeeper Q and number of total watches and shoes sold by shopkeeper S?
(a) 19 : 5
(b) 5 : 19
(c) 17 : 6
(d) 6 : 17
(e) None of these

Q3. If $\frac{4}{5}$th of the shoes which are sold by shopkeeper T are defective then how many shoes he sold which are not defective?
(a) 784
(b) 844
(c) 744
(d) 764
(e) 754

Q4. Total number of products sold by shopkeeper S is approximately what percent more or less than total number of products sold by shopkeeper R?
(a) 42%
(b) 38%
(c) 46%
(d) 64%
(e) 52%

Q5. No. of total Watches and shocks sold by shopkeeper R is what percent of No. of total watches and shoes sold by shopkeeper P?
(a) 0%
(b) 25%
(c) 50%
(d) 75%
(e) 100%

Directions (6-10): Study the table carefully and answer the questions.
Table given below shows percentage of books sold of 3 different publications by five different seller in a month.
Note: Books are sold by three publication only.

Sellers	Books sold of Adda Pub.	Books sold of 'XY' Pub.	Books sold of 'YZ' pub.
A	480	24%	16%
B	780	20%	15%
C	25%	650	10%
D	10%	30%	540
E	30%	20%	550

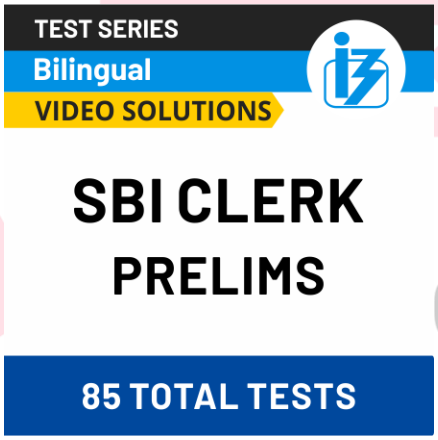
Q6. Books sold by seller B of XY and YZ pub. Together is how much more/less than books sold by E of Adda & YZ publications together?
(a) 360
(b) None of these
(c) 380
(d) 420
(e) 460

Q7. Books sold by seller C of Adda & XY together is what percent of total books sold by seller D ?
(a) 100%
(b) 80%
(c) None of these
(d) 150%
(e) 120%

Q8. What is average number of books sold by all sellers of Adda publication ?
(a) 392
(b) 386
(c) 406
(d) None of these
(e) 414

Q9. If selling price of each book of Adda publication sold by seller C is Rs. 250 and selling price of each book of XY publication sold by seller D is Rs. 220. Then find the difference in selling price of books of Adda publication sold by C and XY publication sold by D ?
(a) Rs. 4500
(b) Rs. 2900
(c) Rs. 3600
(d) Rs. 3100
(e) Rs. 4200

Q10. If profit made on each book sold by seller E is Rs. 44. Then find profit percent of each book sold by seller E ? (given that selling price of each book is Rs. 264)
(a) 22%
(b) 25%
(c) 20%
(d) 15%
(e) 30%



Directions (11-15): Study the following table and answer the questions given below.
Number of students appeared (in thousand) and percentage of students qualified in an examination over the years.

Years	Number of students appeared (in thousands)	Percentage of qualified students (in %)
2011	5	40
2012	10	55
2013	22.5	35
2014	15	60
2015	27.5	50
2016	30	60

2017	15	80
2018	35	60

Q11. What was the ratio between the number of students appeared in 2011 and the number of students qualified in 2018?
(a) 21 : 2
(b) 2 : 21
(c) 5 : 21
(d) 21 : 5
(e) 3 : 4

Q12. In which of the following years number of students qualified was highest?
(a) 2018
(b) 2016
(c) 2015
(d) 2017
(e) 2013

Q13. What was the percentage drop in the number of students qualified in 2017 as compared to 2016?
(a) 50%
(b) 33.33%
(c) 37.25%
(d) 62.5%
(e) 25%

Q14. The number of students appeared in 2015 was approximately what percent more or less than the number of students disqualified in 2013?
(a) 78%
(b) 88%
(c) 84%
(d) 80%
(e) 94%

Q15. What is the difference between the disqualified students in 2016 and qualified students in 2012?
(a) 6000
(b) 13500
(c) 8500
(d) 5500
(e) 6500

Solutions

S1. Ans.(b)
Sol.
Number of watches sold by shopkeeper P
$= \frac{484}{22} \times 34$
= 748
Number of shocks sold by shopkeeper T
= 1550
∴ Required difference = 1550 – 748
= 802

S2. Ans.(a)
Sol.
No. of watch & shoes sold by Q
$= \frac{2304}{24}[48 + 28]$
$= \frac{2304}{24}[76]$
= 96 × 76
No. of watches & shoes sold by S
$= \frac{1280}{40} \times 60$
= 32 × 60
Required ratio $= \frac{96 \times 76}{32 \times 60} = \frac{19}{5}$

S3. Ans.(c)
Sol.
No. of shoes sold by shopkeeper T
$= \frac{1550}{25} \times 60$
= 62 ×60 = 3720
∴ Shoes sold by T which are not defective
$= \frac{1}{5} \times 3720 = 744$

S4. Ans.(b)
Sol.
Total product sold by shopkeeper S
$= 100 \times \frac{1280}{(100 - 60)} = 3200$
Total product sold by shopkeeper R
$= 100 \times \frac{1040}{(100 - 80)} = 5200$
∴ Required percentage

$= \frac{2000}{5200} \times 100$
$\simeq 38\%$

S5. Ans.(e)
Sol.
Watches & shocks sold by R
$= 1040 + \frac{1040}{20} \times 13$
= 1040+ 676 = 1716
Watches and shoes sold by P
$= \frac{484}{22} \times 78 = 1716$
Required % $= \frac{1716}{1716} \times 100 = 100\%$

S6. Ans.(e)
Sol.
Books sold of XY and YZ publications together by seller B
$= \frac{780}{65} \times 35 = 420$
Books sold of Adda & YZ publication together by seller E
$= \frac{550}{50} \times 30 + 550$
= 330 + 550 = 880
Required difference = 880 – 420 = 460

S7. Ans.(a)
Sol.
Books sold of Adda & XY publication together by seller C
$= \frac{650}{65} \times 25 + 650$
= 250 + 650
= 900
Total book sold by D

$= \frac{540}{60} \times 100$
$= 900$
Required% $= \frac{900}{900} \times 100 = 100\%$

S8. Ans.(b)
Sol.
Required Avg. $= \frac{1}{5}\left[480 + 780 + \frac{650}{65} \times 25 + \frac{540}{60} \times 10 + \frac{550}{50} \times 30\right]$
$= \frac{480+780+250+90+330}{5}$
$= \frac{1930}{5} = 386$

S9. Ans.(d)
Sol.
Required difference $= \left(\frac{650}{65} \times 25 \times 250\right) - \left(\frac{540}{60} \times 30 \times 220\right)$
$= 62500 - 59400$
$= 3100$

S10. Ans.(c)
Sol.
Cost price of each book = 264 – 44 = 220
$\therefore$ Profit % $= \frac{44}{220} \times 100 = 20\%$

S11. Ans. (c)
Sol.
Required ratio = 5000 : 21000 = 5 : 21

S12. Ans. (a)
Sol.

Year	No. of qualified students
2011	2000
2012	5500
2013	7875
2014	9000
2015	13750
2016	18000
2017	12000
2018	21000

S13. Ans. (b)
Sol.
Required percentage $= \frac{18000-12000}{18000} \times 100 = 33.33\%$

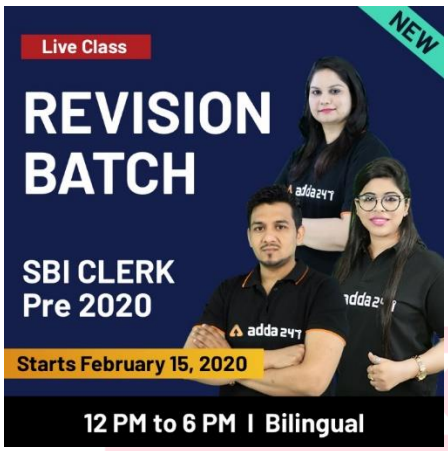
S14. Ans. (b)

Sol.

Require percentage $= \frac{27500 - 14625}{14625} \times 100 = 88\%$ (approx.)

S15. Ans. (e)

Sol.

Required difference $= 30000 \times \frac{40}{100} - 10000 \times \frac{55}{100}$

$= 12000 - 5500 = 6500$