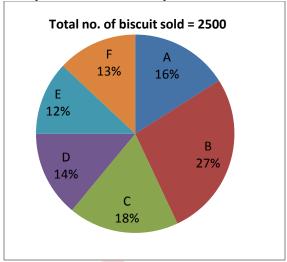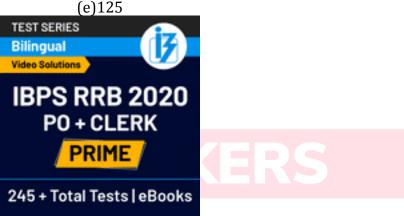Quiz Date: 15th September 2020

Directions (1-5): Pie-chart shown below shows distribution of biscuits sold by six sellers. Study the chart carefully and answer the following questions

Total no. of biscuit sold = 2500

F
13%

A
16%

E
12%

B
27%

D
14%

C
18%

Q1. Biscuit sold by F and D together is how much percentage more than the biscuit sold by E?
(a) 225%
(b) 125%
(c) 75%
(d) 175%
(e) 150%

Q2. B sold three types of biscuit i.e. X, Y and Z in the ratio 2 : 3 : 4. Find the difference between Z type biscuit and X type biscuit sold by B?
(a) 120
(b) 130
(c) 140
(d) 150
(e) 160

Q3. C sold 30% biscuit to males, 45% to females and remaining to transgender. Then biscuit bought by males and females together is how much more than the biscuit bought by transgender.
(a) 220
(b) 225
(c) 250
(d) 265
(e) 235

Q4. Average number of biscuit sold by B, C and E all together is how much percent more than biscuit sold by A?

(a) 12.25%
(b) 16.5%
(c) 18.75%
(d) 20%
(e) 22.25%

Q5. What is difference between the number of biscuit sold by E, F and D together to the number of biscuit sold by A and C together?
(a)150
(b) 175
(c) 100
(d)80
(e)125

Directions (6-10): Table given below shows calculators sold by two sellers in five different months. Study the data carefully and answer the following question.

Seller / Month	A	B
Jan	400	400
Feb	700	550
Mar	650	720
Apr	480	540
May	680	560

Q6. In the months of March 'A' sold $38\frac{6}{13}$% defective calculator and 'B' sold 60% defective calculators. Find total non-defective calculators sold in the month of March.
(a) 688
(b) 636
(c) 678
(d) 635
(e) 630

Q7. Calculators sold by 'B' in April are what percent less than calculators sold by B in March?
(a) 20%
(b) 25%

(c) 30%
(d) 22.5%
(e) 27.5%

Q8. Seller 'A' sold all calculators to X, Y and Z in the ratio 4 : 7 : 6 in the month of May. Find the difference between number of calculator bought by Z and X?
(a) 120
(b) 100
(c) 80
(d) 60
(e) 40

Q9. Find the ratio of total calculators sold in Feb to total calculator sold in Jan by A and B together ?
(a) $\frac{9}{16}$
(b) $\frac{15}{8}$
(c) $\frac{8}{15}$
(d) $\frac{16}{25}$
(e) $\frac{25}{16}$

Q10. Total calculators sold in the month of April are how much percent more than the total calculators sold in the month of Jan?
(a) 25%
(b) 27.5%
(c) 30%
(d) 32.5%
(e) 35%

Directions (11-15): Data given below shows number of girls and boys in two different classes in a school. Study the data carefully and answer the following question.
No. of boys in class 'X' is equal to number of girls in class 'Y'. Number of boys in class 'Y' is 10 more than that of boys in class 'X'. Ratio between number of girls in class 'X' to class 'Y' is 1 : 2. Total number of students in class 'Y' is 40% more than that in class 'X'.
→ No. of mentors in class 'X' = 40% of boys in class 'X'
→ No. of mentors in class 'Y' = 60% of girls in class 'Y'
Q11. Total number of boys in class 'Y' is what percent more than total number of girls in class X ?
(a) 120%
(b) 220%
(c) 20%
(d) 60%
(e) 160%

Q12. Total number of mentors in class 'Y' is how much more than that in class 'X'.
(a) 20
(b) 40
(c) 60
(d) 80
(e) 100

Q13. Boys in class 'Z' is 40% more than boys in class 'Y' while girls in class 'Z' is 20% more than girls in class 'X'. Find total number of students in class 'Z'.
(a) 284
(b) 194
(c) 224
(d) 204
(e) 214

Q14. Total number of boys in class X and Y together is how much more than total number of girls in class X and Y together.
(a) 180
(b) 120
(c) 90
(d) 30
(e) 60

Q15. Total girls passed in class 'X' and class 'Y' are 20% and 45% respectively. Find total number of girls who failed?
(a) 105
(b) 85
(c) 95
(d) 115
(e) 125

Solutions

S1. Ans.(b)
Sol.
Required Percentage $= \dfrac{(13+14)-12}{12} \times 100 = \dfrac{15}{12} \times 100 = 125\%$

S2. Ans.(d)
Sol.
Total no. of biscuit sold by B
$= \dfrac{27}{100} \times 2500 = 675$
Required difference $= \dfrac{(4-2)}{9} \times 675 = 2 \times 75 = 150$

S3. Ans.(b)
Sol.
Total no. of biscuit sold by C
$= \dfrac{18}{100} \times 2500 = 450$
Biscuit bought by male and female together $= \dfrac{(30+45)}{100} \times 450$
$= \dfrac{75}{100} \times 450$
$= 337.5$
Biscuit bought by transgender
$= \dfrac{25}{100} \times 450 = 112.5$
Required difference = 337.5 – 112.5 = 225

S4. Ans.(c)
Sol.
Average number of biscuit sold by B, C and E together $= \dfrac{27+18+12}{3 \times 100} \times 2500$
$= \dfrac{57}{3} \times 25$
$= 19 \times 25$
$= 475$
Total number of biscuit sold by A $= \dfrac{16}{100} \times 2500 = 400$
Required % $= \dfrac{475 - 400}{400} \times 100 = \dfrac{75}{4} \% = 18.75\%$

S5. Ans.(e)
Sol.
Required difference $= \dfrac{[12+13+14-16-18]}{100} \times 2500 = 5 \times 25 = 125$

S6. Ans.(a)
Sol.
Non-defective calculator sold by A $= \left(1 - \dfrac{5}{13}\right) \times 650 = 400$
Non-defective calculator sold by B $= \left(1 - \dfrac{60}{100}\right) \times 720 = 288$

Total non-defective calculator sold in March = 400 + 288 = 688

S7. Ans.(b)
Sol.
Required percentage
$= \dfrac{720 - 540}{720} \times 100$
$= \dfrac{180}{720} \times 100$
$= 25\%$

S8. Ans.(c)
Sol.
Required difference $= \dfrac{(6 - 4)}{17} \times 680 = 80$

S9. Ans.(e)
Sol.
Required ratio $= \dfrac{(700 + 550)}{(400 + 400)} = \dfrac{1250}{800} = \dfrac{25}{16}$

S10. Ans. (b)
Sol.
Total calculator sold in April = 1020
Total calculator sold in Jan = 800
Required Percentage $= \dfrac{1020 - 800}{800} \times 100 = 27.5\%$

Sol (11-15):
Let no. of boys in class 'X' = 100x
No. of girls in class 'Y' = 100x
No. of boys in class 'Y' = 100x + 10
No. of girls in class X = $\dfrac{100x}{2} = 50x$
Total no. of students in class 'X' = 100x + 50x = 150x
Total no. of students in class 'Y' = 100x + 100x + 10 = 200x + 10
ATQ,
$\dfrac{200x+10}{150x} = \dfrac{140}{100}$
$\Rightarrow 200x + 10 = 210x$
$\Rightarrow x = 1$

X		Y	
Boys	Girls	Boys	Girls
100	50	110	100

Mentor in class X = $\dfrac{40}{100} \times 100 = 40$
Mentor in class Y = $\dfrac{60}{100} \times 100 = 60$

S11. Ans.(a)
Sol.
Required% = $\frac{110-50}{50} \times 100$
= $\frac{60}{50} \times 100$
= 120%

S12. Ans.(a)
Sol.
Required difference = 60 – 40 = 20

S13. Ans.(e)
Sol.
Total no. of students in Class 'Z'
= $\frac{140}{100} \times 110 + \frac{120}{100} \times 50$
= 154 + 60
= 214

S14. Ans.(e)
Sol.
Required difference = 100 + 110 – 50 – 100
= 210 – 150
= 60

S15. Ans.(c)
Sol.
Total no. of girls who failed = $\frac{80}{100} \times 50 + \frac{55}{100} \times 100$
= 40 + 55
= 95

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