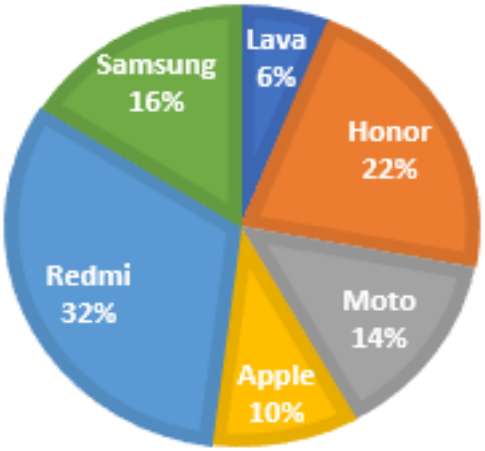
Quiz Date: 1st May 2020

Directions (1-5): The following pie-chart shows the percentage distribution of mobile phones of different companies and table shows the ratio of good and defective phones respectively of different companies in year 2017. Study the graphs carefully to answer the following questions.
Total mobile phones launched in 2017 = 12 million



Companies	Ratio of Good and Defective phones Good : Defective
Honor	9 : 2
Moto	6 : 1
Apple	9 : 1
Redmi	13 : 3
Samsung	5 : 3
Lava	3 : 1

Q1. Total no. of defective mobile phones manufactured by Moto and Apple together is approximately what percent of good mobile phones manufactured by Lava?
(a) 76%
(b) 63%
(c) 67%
(d) 77%
(e) 65%

Q2. If 80% of defective phones of Samsung were refurbished and sold at a price which was 76% of original price of good Samsung phone and if selling price of refurbished Samsung phone was Rs. 9500 per phone then find the total selling price of Samsung phones which were sold? (in million)
(a) 24,200
(b) 21,200
(c) 20,472

(d) 20,200
(e) 22,000

Q3. What is the average no. of good mobile phones manufactured by Redmi, honor and Apple together?
(a) 2.12 million
(b) 21.2 million
(c) 0.12 million
(d) 4.12 million
(e) 1.212 million

Q4. Total no. of good mobile phones manufactured by Redmi was what percent more than the total no. of good phones manufactured by Honor?
(a) $\frac{200}{9}\%$
(b) $\frac{900}{7}\%$
(c) $\frac{500}{9}\%$
(d) $\frac{400}{9}\%$
(e) 100%

Q5. What is the difference between no. of good mobiles launched by Moto, Samsung and Apple together and no. of good mobiles launched by Honor, Redmi and Lava together?
(a) 1.2 million
(b) 2.1 million
(c) 2.4 million
(d) 3.1 million
(e) 1.1 million

Q6. 6 men can complete a piece of work in 12 days. 8 women can complete the same piece of work in 18 days whereas 18 children can complete the piece of work in 10 days. 4 men, 12 women and 20 children work together for 2 days. If only men were to complete the remaining work in 1 day how many men would be required totally ?
(a) 36

(b) 24
(c) can't be determined
(d) 35
(e) None of these

Q7. A certain sum of money is invested at an interest rate of 5% per annum and a second sum twice as large as the first, is invested at 5.5% per annum. The total interest earned from the two investments together is Rs. 1000 per year and the interest is withdrawn every year. The second sum invested is
(a) Rs. 6250
(b) Rs. 10500
(c) Rs. 12500
(d) Rs. 15000
(e) Rs. 14500

Q8. 12 men can finish a project in 12 days. 18 women can finish the same project in 16 days and 24 children can finish it in 18 days. 8 women and 16 children worked for 9 days and then left. In how many days will 10 men complete the remaining project?
(a) 10 ½
(b) 10
(c) 6
(d) 11 ½
(e) 8

Q9. Two letters are randomly chosen from the word LIME. Find the probability that the letters are L and M.
(a) 1/2
(b) 1/4
(c) 1/3
(d) 1/6
(e) None of these

Q10. How many number of 4 digits can be formed with the digits 0, 1, 2, 3, 4, 5? (No digit being repeated.)
(a) 1080
(b) 120
(c) 300
(d) 360
(e) 370

Directions (11-15): Find which term is placed as incorrectly in the following number series.

Q11. 3, 10.5, 25.5, 48, 78, 116.5
(a) 3
(b) 116.5
(c) 10.5

(d) 48
(e) 78

Q12. 2, 4.5, 10, 22, 49, 104
(a) 4.5
(b) 104
(c) 49
(d) 22
(e) 10

Q13. 4, 12, 76, 292, 800, 1804
(a) 12
(b) 800
(c) 292
(d) 76
(e) 1804

Q14. 8, 11, 5, 14, 2, 17,– 4
(a) -4
(b) 17
(c) 14
(d) 2
(e) 5

Q15. 243, 81, 27, 8, 3, 1
(a) 81
(b) 1
(c) 8
(d) 27
(e) 3

Solutions

S1. Ans.(c)
Sol.

Total no. of Defective mobile phones manufactured by Moto and Apple

$= \left(\frac{1}{7} \times \frac{14}{100} \times 12 + \frac{1}{10} \times \frac{10}{100} \times 12\right)$ million

$= (0.24 + 0.12)$

$= 0.36$ million

No. of good mobile phones manufactured by Lava

$= \frac{3}{4} \times \frac{6}{100} \times 12$

$= 0.54$ million

$\therefore$ Required percentage $= \frac{36}{54} \times 100$

$\simeq 67\%$

S2. Ans.(c)

Sol.

Original price of good Samsung phone

$= 9500 \times \frac{100}{76}$

$= 12{,}500$

Total selling price (in million)

$= \left(\begin{matrix}\frac{5}{8} \times \frac{16}{100} \times 12 \times 12500 + \frac{80}{100} \\ \times \frac{3}{8} \times \frac{16}{100} \times 12 \times 9500\end{matrix}\right)$ million

$= 20472$ million

S3. Ans.(a)

Sol.

Required average

$= \frac{1}{3} \times \left(\frac{13}{16} \times \frac{32}{100} + \frac{9}{11} \times \frac{22}{100} + \frac{9}{10} \times \frac{10}{100}\right) \times 12$

$= 2.12$ million

S4. Ans.(d)

Sol.

Required percentage

$= \frac{13 \times 2 - 9 \times 2}{9 \times 2} \times 100$

$= \frac{400}{9}\%$

S5. Ans.(b)

Sol.

Required difference

$= \left(\frac{9}{11} \times \frac{22}{100} + \frac{13}{16} \times \frac{32}{100} + \frac{3}{4} \times \frac{6}{100}\right) \times 12$

$-\left(\frac{6}{7} \times \frac{14}{100} + \frac{9}{10} \times \frac{10}{100} + \frac{5}{8} \times \frac{16}{100}\right) \times 12$

$= (0.18 + 0.26 + 0.045 - 0.12 - 0.09 - 0.1) \times 12$

$= (0.485 - 0.31) \times 12$

$= 2.1$ million

S6. Ans.(a)

Sol.

2 days work by given no. of persons

$= \frac{4\times2}{6\times12} + \frac{12\times2}{8\times18} + \frac{20\times2}{18\times10}$

$= \frac{1}{2}$

Remaining work $= 1 - \frac{1}{2} = \frac{1}{2}$

$\therefore$ Required number of men $= \frac{1}{2} \times 72$

$= 36$

S7. Ans.(c)

Sol.

Let amounts are P and 2P

$\therefore \frac{P\times1\times5}{100} + \frac{2P\times1\times5.5}{100} = 1000$

$\Rightarrow P = 6250$

$\therefore$ Second sum $= 2 \times 6250$

$= 12{,}500$

S8. Ans.(c)

Sol.

9 days work of 8 women and 16 children

$= \left(\frac{8\times9}{18\times16} + \frac{16\times9}{24\times18}\right)$

$= \frac{7}{12}$

$\therefore$ Remaining work $= \frac{5}{12}$

$\therefore$ No. of days taken by 10 men to complete the remaining work

$= \frac{5}{12} \times \frac{12\times12}{10} = 6$

S9. Ans.(d)

Sol.

Required probability $= \frac{1}{{}^4C_2} = \frac{1}{6}$

S10. Ans.(c)

Sol.

Required ways $= 5 \times 5 \times 4 \times 3$

$= 300$

S11. Ans.(b)

Sol.

Pattern is,

+7.5, +15, +22.5, +30, +37.5, +45

$\therefore$ Wrong term $= 116.5 \neq \boxed{115.5}$

S12. Ans.(c)

Sol.

Pattern is,

$2 \times 2 + 0.5 = 4.5$

$4.5 \times 2 + 1 = 10$

$10 \times 2 + 2 = 22$

$22 \times 2 + 4 = \boxed{48} \neq 49$

$48 \times 2 + 8 = 104$

Therefore,

wrong term=49

S13. Ans.(b)

Sol.

4 12 76 292 804 1804

$+2^3$ $+4^3$ $+6^3$ $+8^3$ $+10^3$

$\therefore$ Wrong term = 800

S14. Ans.(a)

Sol.

Pattern is,
+ 3, −6, +9, −12, +15, −18
∴ Wrong term = − 4

S15. Ans.(c)
Sol.
Pattern is,
÷3, ÷3, ÷3, ÷3, ÷3, ...
∴ Wrong term = 8

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