

Quiz Date: 19<sup>th</sup> March 2020

Q1. The perimeter of a square is equal to twice the perimeter of a rectangle of length of 8 cm and breadth 7 cm. What is the circumference of a semicircle whose diameter is equal to the side of the square? (Rounded off to the two decimal places)

- (a) 38.57 cm.
- (b) 23.57 cm.
- (c) 42.46 cm.
- (d) 47.47 cm.
- (e) 35.87 cm.

Q2. One type of mixture contains 25% of milk another type of mixture contains 30% of milk. A container is filled with 6 parts of the first mixture and 4 parts of the second mixture. The percentage of milk in the mixture is .

- (a) 27%
- (b) 31%
- (c) 29%
- (d) 33%
- (e) 30%

Q3. From 2000 onwards, till 2003 the price of computers increased every year by 10%. After that due to government subsidy the price of computers decreases every year by 10%. The price of a computer in 2006 will be approximately how much percent less than the price in 2000 if the same pattern of price is continued :

- (a) 2
- (b) 3
- (c) 4
- (d) 5
- (e) 6

Q4. The cost of packaging of the mangoes is 40% the cost of fresh mangoes themselves. The cost of mangoes increased by 30% but the cost of packaging decreases by 50%, then find the percentage change of the cost of packed mangoes, if the cost of packed mangoes is equal to the sum of the cost of fresh mangoes and cost of packaging. (Rounded off to two decimal places)

- (a) 14.17%
- (b) 7.14%
- (c) 6.66%
- (d) 7.66%
- (e) 8.14%

Q5. Twenty-four men can complete a work in sixteen days. Thirty-two women can complete the same work in twenty-four days. Sixteen men and sixteen women started working and

worked for twelve days. How many more men are to be added to complete the remaining work in 2 days?

- (a) 48
- (b) 24
- (c) 36
- (d) 30
- (e) 32

Q6. A shopkeeper gave an additional 25 per cent concession on the reduced price after giving 20 per cent standard concession on an article. If Arun bought that article for Rs.1200, what was the original price?

- (a) Rs. 3000
- (b) Rs. 2400
- (c) Rs. 2600
- (d) Rs. 2000
- (e) Rs. 2500



Q7. The average age of A and B is 22 years. If C were to replace A, the average would be 18 and if C were to replace B, the average would be 23. What are the ages of A, B and C?

- (a) 27, 17, 19
- (b) 18, 22, 20
- (c) 22, 20, 18
- (d) 18, 20, 22
- (e) 20, 14, 28

Q8. In an examination a student Raj got 25% of the maximum marks and failed by 15 marks. Another student Ravi scored 35% of the maximum marks which was 25 marks more than the passing marks. The necessary percentage required for passing is

- (a) 32.75%
- (b) 23.5%
- (c) 28.75%
- (d) 20%
- (e) 27.85%

Q9. A, B and C rent a pasture. A put in 10 oxen for 7 months, B 12 oxen for 5 months and C 15 oxen for 3 months for grazing. If the rent of the pasture is Rs. 175, how much must C pay as his share of rent?

- (a) Rs. 45
- (b) Rs. 50
- (c) Rs. 55
- (d) Rs. 60
- (e) Rs. 65

Q10. A, B and C start a business in partnership with initial investments of Rs. 4200, Rs. 3600 and Rs. 2400 respectively. After 4 months from the start of the business, A invests an additional amount of Rs. 1000 in the business. After 6 months from the start of the business B and C invest additional amounts in the respective ratio 1 : 2. After 10 months they get a total profit of Rs. 2820. If the share of A in profit be Rs. 1200, what was the additional investment made by B ?

- (a) Rs. 420
- (b) Rs. 400
- (c) Rs. 440
- (d) Rs. 450
- (e) Rs. 500

Directions (11-15): What should come in place of the question mark (?) in the following questions (you are not expected to find exact value)?

Q11.  $12.95 \times 7.05 + (85.01)^2 \times 10.99 = ?$

- (a) 69566
- (b) 79566
- (c) 81000
- (d) 80566
- (e) 76566

Q12.  $432.62 - 269.21 \div (11.9\% \text{ of } 74.95) = ?$

- (a) 370
- (b) 380
- (c) 403
- (d) 410
- (e) 420

Q13.  $899.99 \div 45.072 = ? - 224.488$

- (a) 224
- (b) 230
- (c) 250
- (d) 244
- (e) 260

Q14.  $(17.95)^2 - (14.05)^2 + (2343.75 + 81.55) \div ? = 229$

- (a) 24
- (b) 28
- (c) 30

- (d) 20  
(e) 34

Q15. 39.97% of 649.8 ÷ 13.05 = 45.12 - ?

- (a) 40  
(b) 15  
(c) 25  
(d) 10  
(e) 30

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Solutions

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S1. Ans.(a)

Sol.

Side of square = Diameter (D) of semicircle

$$= \frac{4 \times (8+7)}{4} = 15 \text{ cm}$$

∴ Circumference of semicircle =  $\frac{1}{2} \times \pi D + D$

$$= \frac{1}{2} \times \frac{22}{7} \times 15 + 15$$

$$= 38.57 \text{ cm}$$

S2. Ans.(a)

Sol.

Required percentage of milk

$$= \frac{\frac{25}{100} \times 6 + \frac{30}{100} \times 4}{10} \times 100$$

$$= 27\%$$

S3. Ans.(b)

Sol.

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Let price in 2000 was Rs 100x

∴ Price in 2006

$$= 100x \times \frac{110}{100} \times \frac{110}{100} \times \frac{110}{100} \times \frac{90}{100} \times \frac{90}{100} \times \frac{90}{100}$$

$$= 97.0299x \simeq 97x$$

$$\therefore \text{Required percentage} = \frac{100x - 97x}{100x} \times 100$$

$$= 3\%$$

S4. Ans.(b)

Sol.

Let cost of fresh mangoes = 100x

∴ cost of packing = 40x

New cost of fresh mangoes = 100x × 1.3  
= 130x

& that of packing = 40x ×  $\frac{50}{100}$   
= 20x

$$\therefore \text{Required percentage} = \frac{150x - 140x}{140x} \times 100$$

$$= 7.14\%$$

S5. Ans.(b)

Sol.

1 man can complete the work in  $16 \times 24 = 384$  days

$$1 \text{ man per day work} = \frac{1}{384}$$

$$16 \text{ men per day work} = \frac{16}{384} = \frac{1}{24}$$

$$16 \text{ women per day work} = \frac{16}{32 \times 24} = \frac{1}{48}$$

(16 men + 16 women) per day work

$$= \frac{1}{24} + \frac{1}{48} = \frac{1}{16}$$

$$\text{Work done in 12 days} = \frac{12}{16}$$

$$\text{Remaining work} = 1 - \frac{12}{16} = \frac{1}{4}$$

This work should be completed in 2 days

$$\text{So per day work should be } \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$$

But right now only  $\frac{1}{16}$  work per day is being done.

So  $\left(\frac{1}{8} - \frac{1}{16} = \frac{1}{16}\right)$  more work is required for

$$\text{which } \frac{\frac{1}{16}}{\frac{1}{384}} = 24 \text{ more man are required.}$$

S6. Ans.(d)

Sol.

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$$\text{Original price} = 1200 \times \frac{100}{75} \times \frac{100}{80} = \text{Rs. } 2000$$

S7. Ans.(a)

Sol.

$$A + B = 22 \times 2$$

$$\Rightarrow A + B = 44$$

$$\text{and } B + C = 36$$

$$\text{and } C + A = 46$$

$$\therefore A + B + C = \frac{126}{2} = 63$$

$$\therefore \text{Age of A} = 63 - 36 = 27 \text{ years}$$

$$\text{Age of B} = 63 - 46 = 17 \text{ years}$$

$$\text{Age of C} = 63 - 44 = 19 \text{ years}$$

S8. Ans.(c)

Sol.

Let maximum mark = x

$$\therefore x \times \frac{25}{100} + 15 = x \times \frac{35}{100} - 25$$

$$\Rightarrow x = 400$$

$\therefore$  Required minimum no. for passing

$$= \frac{400}{4} + 15 = 115$$

$$\text{Required percentage} = \frac{115}{400} \times 100 = 28.75\%$$

S9. Ans.(a)

Sol.

$$\text{Ratio} = 10 \times 7 : 12 \times 5 : 15 \times 3$$

$$= 70 : 60 : 45$$

$$= 14 : 12 : 9$$

$$\therefore \text{C's rent} = \frac{9}{35} \times 175$$

$$= 45 \text{ Rs.}$$

S10. Ans.(b)

Sol.

Let B invests additional amount of Rs. x and C Rs. 2x respectively.

(A's profit) : (B's profit) : (C's profit)

$$= [4200 \times 4 + 5200 \times 6] : [3600 \times 6 + (3600 + x) \times 4] : [2400 \times 6 + (2400 + 2x) \times 4]$$

$$= 12000 : (9000 + x) : (6000 + 2x)$$

$$\begin{aligned}\therefore A's \text{ profit} &= \frac{12000}{27000 + 3x} \times 2820 \\ \Rightarrow 27000 + 3x &= \frac{12000}{1200} \times 2820 \\ \Rightarrow x &= \text{Rs.400}\end{aligned}$$

S11. Ans.(b)

Sol.

$$\begin{aligned} ? &\simeq 13 \times 7 + 85^2 \times 11 \\ &\simeq 79566 \end{aligned}$$

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S12. Ans.(c)

Sol.

$$\begin{aligned} ? &433 - 269 \div \left( \frac{12}{100} \times 75 \right) \\ &\simeq 433 - \frac{269}{9} \\ &\simeq 433 - 30 \\ &\simeq 403 \end{aligned}$$

S13. Ans.(d)

Sol.

$$\begin{aligned} ? &\simeq \frac{900}{45} + 224 \\ &\simeq 244 \end{aligned}$$

S14. Ans.(a)

Sol.

$$\begin{aligned} \frac{2425}{?} &\simeq 229 + 14^2 - 18^2 \\ &\simeq 101 \\ \Rightarrow ? &\simeq 24 \end{aligned}$$

S15. Ans.(c)

Sol.

$$? \simeq 45 - \frac{40}{100} \times \frac{650}{13}$$
$$? \simeq 25$$

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