

Statement Sheet Test

1. In how many ways the letters of the word ROSTER can be arranged so that vowels are always together?

(a) 60 (b) 120 (c) 720 (d) 144 (e) None

2.. If a train 220 metre long passes a telegraphic pole in 11 seconds, the time taken (in seconds) by it to cross a tunnel 400 metre tunnel is:

(a) 25 seconds (b) 30 seconds (c) 31 seconds (d) 35 seconds (e) None

3.. Arun goes 20 km distance with average speed of 12 km/hr while rest 30 km he travels with an average speed of 15 km/hr. What is the average speed of Arun during whole journey?

(a) 13711 km/hr (b) 15711 km/hr (c) 14711 km/hr (d) 12711 km/hr (e) None

4.. When an article is sold for Rs 612 loss incurred is 33% more than the profit earned on selling it at Rs 1361. What is the selling price when it earned a profit of 25%?

(a) Rs 1400 (b) Rs 1040 (c) Rs 1450 (d) Rs 1300 (e) None of these

5.. A bookseller procures 50 books for Rs 40000 and sells them at a profit equal to the selling price of 10 books. What is the selling price of one dozen books, if the price of each book is same?

(a) Rs 10000 (b) Rs 12000 (c) Rs 15000 (d) Rs 20000 (e) None of these

6.. A reduction of 16.66% in the price of sugar enables a housewife to purchase 30 kg more for Rs 2400. What is the original price per kg of sugar?

(a) Rs 12 per kg (b) Rs 16 per kg (c) Rs 18 per kg (d) Rs 24 per kg (e) None

7..A, B and C invest in the ratio of 3 : 4 : 7. The percentage of return on their investments are in the ratio of 8 : 7 : 6. Find the total earnings, if C earns Rs 1400 more than B.

(a) Rs 9000 (b) Rs 9200 (c) Rs 9400 (d) Rs 9600 (e) None

8.. The average age of boys of the class is 32 years and that of girls is 36 years. If the average of the whole class is 34 years, then find the ratio of number of boys and girls of the class?

(A) 2:3 (B) 4:5 (C) 5:3 (D) 1:1 (E) None

9.. A boy travelled from home to school at a speed of 15km/hr and from school to home at a speed of 30km/hr. If he takes total time of 2.5 hours, find the distance between his school and home?

(A) 50km (B) 24km (C) 25km (D) 30km (E) None

10... Two trains moving with speed of 172km/hr and 38km/hr towards each other can cross each other in 15 seconds. If one train is 275 meters longer than the other train, find the length of the longer train?

(A) 875m (B) 200m (C) 300m (D) 575m (E) None

11... P completes a work in 16 days and Q complete the same work in 24 days. Find the time taken by them to complete the work together, if P work 33.33% more efficiency and Q work with 100% more efficiency?

(A) 4days (B) 5days (C) 6days (D) 9days (E) None

12..A shopkeeper gives discount of 25% and gives two bats free on purchase of 8 bats .If he earns profit of 33.33%,then find the ratio of C.P and M.P ?

a.9:20 b.20:9 c.15:16 d.16:15 e.None of these

13...Raman and Madhav can do a work in 14 days while Raman, Madhav and Manav together can complete the same work in 28/3 days. Find the number of days required by Manav to complete the whole work alone ?

a.70 days b.28 days c.42 days d.56 days e.None

14..Pipe A can fill a tanker in 9 hours, Pipe B can fill it in 6 hours and Pipe C can empty it in 3 hours. All three pipes are opened in order at 2 pm, 4pm and 6pm respectively. The tank will be emptied at ?

a.4 am b.8 am c.10 am d.7 am e.9 am

15..Binit can travel 21 km upstream and 27 km downstream in 10 hours and 18 km downstream and 33 km upstream in 13 hours .What is the speed of Binit in still water ?

a.7 kmph b.6 kmph c.5 kmph d.4 kmph e.3 kmph

16..The ratio of present age of Jaya and Bachan is 5:6 and the ratio of age of Jaya 6 years ago and age of Bachan 9 years hence is 1:3. Find the present age of Bachan ?

a.24 year b.18 year c.15 year d.12 year e.21 year

17..The average score of Dhoni in a certain number of innings is 56. When he scored zero in one innings ,his average dropped to 52. How many innings have been played including the last one ?

a.14 b.15 c.13 d.16 e.12

18...Find the number of 4 letter words with or without meaning ,which can be formed out of the letter of the word "PAINT" ,where the repetition of the letter is not allowed ?

a.150 b.60 c.625 d.120 e.100

19.. A man spends 80% of his income. If his income is increased by 15% and he increases his expenditure by 10%, then find the original expenditure. Given that he now saves Rs 700 more than earlier.

(A) 6000 (B) 5000 (C) 8000 (D) 4000 (E) None

20.. The population of a town increases by 10% in first year and 25% in the next year. If the population of town now is 5000, then find the population after two years?

A) 6778 (B) 6497 (C) 6875 (D) 6500 (E) None

21.. In a club, 60% of the people play table tennis, 30% play snooker and 10% play both. Find the number of people who play any one of the games, if number of people playing both the games is 100?

(A) 700 (B) 800 (C) 500 (D) 400 (E) None

22.. A sum of Rs 4500 is divided among A, B and C. The ratio of the amount received by A to B is 2:3 and that by B to C is 6:5. Find the amount received by C?

(A) 3540 (B) 2500 (C) 2000 (D) 1500 (E) None

23.. In a school there are 700 students and the ratio of boys and girls is 4:3. If 30 more girls join the school and some boys also join the school and the ratio becomes 15:11, then find the number of boys who joined the school?

(A) 40 (B) 50 (C) 60 (D) 30 (E) None

24... The simple interest on a certain sum for two years at 10% rate is equal to the compound interest at Rs 2400 for two years at the same rate. Find the amount invested in simple interest?

(A) Rs 2520 (B) Rs 2550 (C) Rs 3264 (D) Rs 2640 (E) None

25.. An amount increases by 16.66% in three years at simple interest. Find the interest received if Rs 4800 is invested for 2 years at thrice the previous rate? (A) 2400 (B) 1500 (C) 1600 (D) 3600 (E) None

1.

(20) Required number of way = $(5! \cdot 2!)/2!$
= 120

2.

(11) Speed of train = $220/11 = 20$ m/s
Time taken to cross 400 m tunnel =
 $620/20 = 31$ seconds

3.

(12) Total distance = 50 km
Total time = $20/12 + 30/15 = 11/3$ hours
Average speed = $(50/11) \cdot 3 = 150/11$
km/hr

4.

(13) 7 units – Rs 749
3 units – Rs 321
CP = Rs 1040
SP = $1040 + 260 =$ Rs 1300

5.

(14) Let CP of 1 book be x and SP of 1
book be y.
 $50y - 50x = 10y$
 $x/y = 4/5$
CP of one book = Rs 800
SP of one book = Rs 1000
SP of 12 books = Rs 12000

6.

(15) Ratio of price = 6 : 5
Ratio of quantity = 5 : 6
1 unit = 30 kg
5 units = 150 kg
Original price = $2400/150 =$ Rs 16 per kg

7.

(16) Ratio of profit = $(8 \cdot 3 : 7 \cdot 4 : 6 \cdot 7) = 12$
: 14 : 21
7 units – Rs 1400
47 units – Rs 9400

8...

17. by allegation= 32 36
34 2 2 Ratio=1:1

9....

18. average speed= $2 \cdot 15 \cdot 30/45 = 20$
Distance travelled= $20 \cdot 5/2 = 50$ km
Distance between home and school=25km

10...

19. length of both trains=
 $210 \cdot 518 \cdot 15 = 875m$
Let the length of trains be x, x+275m
Length of the longer train=575m

11....

20. P=16days----3
48
Q=24days-----2
Time= $484 + 4 = 6$ days

12...

11.MP : CP
4 3
10 8
4 3

160 : 72

CP : MP = 9:20

13.B

12. R+M R+M+M
T → 14 28/3
T → 42 : 28
T → 6 : 4
E → 4 : 6
Time taken = $4 \times 14/2$

14..B

13.A → 9
B → 6
C → 3
Total = 18
Tank filled = $2 \times 4 + 3 \times 2$
= 14 Time taken = $146 - 2 - 3$
Time = 6pm + 14 hr

15.B

17. $21v - s + 27v + s = 10$
 $33v - s + 18v + s = 13$
After solving we get
 $v + s = 9$
 $v - s = 3$
Speed of Binit = $9 + 3/2$

16.

$18.5x - 66x + 9 = 1/3$

$15x - 18 = 6x + 9$

$15x - 6x = 18 + 9$

$9x = 27$

$x = 3$

Bachan = 3×6

17..

19.56 0

52

52 4

Ratio = 13:1

Total = 13+1

18....

20.Total cases = $5 \times 4 \times 3 \times 2$

19...

. Ans C

Let the original income be 100x

Income expenditure saving

Original 100x 80x 20x

New 115x 88x 27x

Increase in saving $7x = 700$

Original expenditure= $7007 \times 80 = 8000$

20...

12. Ans C

Population after two years=

$5000 \times (110100) \times (125100) = 6875$

21..

13. Ans B

Playing any one of the games= $(60+30)-$

$10 = 80x$

$10x = 100$ $80x = 800$

22..

14. Ans D

Ratio= A : B:C= 4:6:5

Amount received by C= $450015 \times 5 = 1500$

23..

15. Ans B

Number of boys and girls= 400 and 300
respectively

Now girls= $300 + 30 = 330$

New ratio= 15:11

11---330

15---450

Number of boys who joined= $450 - 400 = 50$

24..

16. Ans A

Let the amount invested in SI= P

$2400(21100) = P \times 2 \times 10100$

P= Rs 2520

25...17. Ans C

Rate on interest earlier= 16.66%³

Interest received=

$(4800 \times 3 \times 2) \times 16.66\% = 1600$