

SSC CHSL (10+2) Exam Mock Test -3 "Arithmetic"

1. A man buys 12 articles for Rs. 12/- and sells them at the rate of Rs. 1.25 per article. His gain percentage is
 - (a) 20
 - (b) 25
 - (c) 15
 - (d) 18
2. The cost price of 15 articles is same as the selling price of 10 articles. The profit per cent is:
 - (a) 30%
 - (b) 40%
 - (c) 50%
 - (d) 45%
3. By selling an article for Rs. 240, a man incurs a loss of 10%. At what price should he sell it, so that he makes a profit of 20% ?
 - (a) Rs. 264
 - (b) Rs. 288
 - (c) Rs. 300
 - (d) Rs. 320
4. A house and a shop were sold for Rs. 1 lakh each. In this transaction, the house sale resulted into 20% loss whereas the shop sale into 20% profit. The entire transaction resulted in

- (a) no loss no gain
- (b) gain of Rs. $\frac{1}{24}$ lakh
- (c) loss of Rs. $\frac{1}{12}$ lakh
- (d) loss of Rs. $\frac{1}{18}$ lakh

5. If a man estimates his loss as 20% of the selling price, then his loss per cent is

- (a) 20%
- (b) 25%
- (c) $\frac{40}{3}$ %
- (d) Data inadequate

6

If $x = \frac{1}{3}y$ and $Y = \frac{1}{2}z$, then $x : y :$

z , is equal to

- (a) 3: 2: 1
- (b) 1: 2: 6
- (c) 1: 3: 6
- (d) 2: 4: 6

7

Divide Rs. 1250 among A, B, C, so

that A gets $\frac{2}{9}$ of B's share and C

gets 4 of A's share.

- (a) Rs. 200, Rs. 800, Rs. 250
- (b) Rs. 200, Rs. 900, Rs. 150

(c) Rs. 150, Rs. 800, Rs. 300

(d) Rs. 200, Rs. 900, Rs. 75

8. The ratio of two numbers is 3 : 8 and their difference is 115. The smaller of the two numbers is

(a) 184

(b) 194

(c) 69

(d) 59

9. Between two consecutive years my incomes are in the ratio of 2 : 3 and expenses in the ratio 5 :

9. If my income in the second year is Rs. 45000 and my expenses in the first year is Rs. 25000 my total savings for the two years is

(a) Nil

(b) Rs. 15000

(c) Rs. 10000

(d) Rs. 5000

10. Rs. 180 contained in a box consists of one rupee, 50 paise and 25 paise coins in the ratio 2 : 3 :

4. What is the number of 50 paise coins?

(a) 60

(b) 120

(c) 150

(d) 180

11. Of the three numbers whose average is 60, the first is one fourth of the sum of the others. The first number is

(a) 30

(b) 36

(c) 42

(d) 45

12. The average of 11 numbers is 10.8. If the average of the first six be 10.4 and that of the last six is 11.5, then the middle (6th) number is

(a) 10.3

(b) 12.6

(c) 13.5

(d) 15.5

13. The average age of 12 players of a team is 25 years. If the captain's age is included, the average age increases by 1 year. The age of the captain is :

(a) 25 yrs.

(b) 38 yrs.

(c) 36 yrs.

(d) 26 yrs.

14. The average income of 40 persons is Rs. 4200 and that of another 35 persons is Rs. 4000. The average income of the whole group is:

- (a) Rs. 4100
- (b) Rs. 4106 3
- (c) Rs. 410623
- (d) Rs. 4108 3

15. The length of the diagonal of a square is 'a' cm. Which of the following represents the area of the square (in sq. cm.) ?

- (a) $2a$
- (b) $\frac{a}{\sqrt{2}}$
- (c) $a^2/2$
- (d) $a^2/4$

16. If the volumes of two cubes are in the ratio 27: 1, the ratio of their edges is

- (a) 3 : 1
- (b) 27 : 1
- (c) 1 : 3
- (d) 1 : 27

17. The sides of a rectangular plot are in the ratio 5:4 and its area is equal to 500 sq.m. The perimeter of the plot is

- (a) 80m.
- (b) 100m.
- (c) 90m.
- (d) 95m.

18. The radius of a wheel is 21 cm. How many revolution will it make in travelling 924 metres?

$$\left(\text{use } \pi = \frac{22}{7} \right)$$

- (a) 7
- (b) 11
- (c) 200
- (d) 700

19. The edges of a cuboid are in the ratio 1 : 2 : 3 and its surface area is 88cm². The volume of the cuboid is:

- (a) 120 cm³
- (b) 64 cm³
- (c) ,48 cm³
- (d) 24 cm³

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20. The area of a sector of a circle of radius 5 cm, formed by an arc of length 3.5 cm is

- (a) 8.5 cm^2
- (b) 8.75 cm^2
- (c) 7.75 cm^2
- (d) 7.50 cm^2

21.

Find the length of the largest rod that can be placed in a room 16m

long, 12m broad and $10\frac{2}{3}$ m. high.

- (a) 23m. (b) 68m.
- (c) $22\frac{2}{3}$ m. (d) $22\frac{1}{3}$ m.

22. A solid metallic cone of height 10 cm, radius of base 20 cm is melted to make spherical balls each of 4 cm. diameter. How many such balls can be made ?

- (a) 25
- (b) 75
- (c) 50
- (d) 125

23. The height of a conical tank is 60 cm and the diameter of its base is 64cm. The cost of painting it from outside at the rate of Rs. 35 per sq. m. is

- (a) Rs. 52.00 approx.
- (b) Rs. 39.20 approx.
- (c) Rs. 35.20 approx.
- (d) Rs. 23.94 approx.

24. A cylindrical tank of diameter 35 cm is full of water. If 11 litres of water is drawn off, the water level in the tank will drop by :

$$\left(\text{use } \pi = \frac{22}{7} \right)$$

(a) $10\frac{1}{2}$ cm (b) $12\frac{6}{7}$ cm

(c) 14 cm. (d) $11\frac{3}{7}$ cm

25. A and B can do a piece of work in 72 days. B and C can do it in 120 days, A and C can do it in 90 days. In how many days all the three together can do the work ?

- (a) 80 days
- (b) 100 days
- (c) 60 days
- (d) 150 days

26. Suman can do a work in 3 days. Sumati can do the same work in 2 days. Both of them finish the work together and get Rs. 150. What is the share of Suman ?

- (a) Rs. 30
- (b) Rs. 60
- (c) Rs. 70
- (d) Rs. 75

27. Three taps A, B and C can fill a tank in 12, 15 and 20 hours respectively. If A, is open all the time and B and C are open for one hour each alternatively, the tank will be full in

(a) 6 hours (b) $6\frac{2}{3}$ hours

(c) 7 hours (d) $7\frac{1}{2}$ hours

28. 5 men can do a piece of work in 6 days while 10 women can do it in 5 days. In how many days can 5 women and 3 men do it ?

- (a) 4
- (b) 5
- (c) 6
- (d) 8

29. A can do a piece of work in 12 days and B can do it in 18 days. They work together for 2 days and then A leaves. How long will B take to finish the remaining work?

- (a) 6 days
- (b) 8 days
- (c) 10 days
- (d) 13 days

30.

A train is travelling at the rate of 45km/hr. How many seconds, it

will take to cover a distance of $\frac{4}{5}$

km ?

- (a) 36
- (b) 64
- (c) 90
- (d) 120

31. A person travels 600 km by train at 80km/hr, 800 km by ship at 40 km/hr. 500 km by aeroplane at 400 km/hr and 100 km by car at 50km/hr. What is the average speed for the entire distance ?

- (a) $65\frac{5}{123}$ km./hr.
- (b) 60 km/hr.
- (c) $60\frac{5}{123}$ km./hr.
- (d) 62 km/hr.

32. A train 100m long is running at the speed of 30 km/ hr. The time (in second) in which it will pass a man standing near the railway line is

- (a) 10
- (b) 11
- (c) 12
- (d) 15

33. Two men are standing on opposite ends of a bridge of 1200 metres long. If they walk towards each other at the rate of 5m/minute and 10m/minute respectively, in how much time will they meet each other ?

- (a) 60 minutes
- (b) 80 minutes
- (c) 85 minutes
- (d) 90 minutes

34. An aeroplane covers a certain distance at a speed of 240 km. per hour in 5 hours. To cover the same distance $1\frac{2}{3}$ in hours, it must travel at a speed of

- (a) 300 km./hr.
- (b) 360 km./hr.
- (c) 600 km./hr.
- (d) 720 km./hr.

Directions: A survey of film watching habits of people living in five cities P, Q, R, S and T is summarised below in a table. The column I in the table gives percentage of film-watchers in each city who see only one film a week. The column II gives the total number of film-watchers who see two or more films per week.

Read the table and answer the questions from 35 to 39

City	I	II
P	60	24,000
Q	20	30,000
R	85	24,000
S	55	27,000
T	75	80,000

35. How many film watchers in city R see only one film in a week ?

- (a) 24850
- (b) 36000
- (c) 136000
- (d) 160000

36. Which city has the highest number of film watchers who see only one film in a week?

- (a) P
- (b) R
- (c) S
- (d) T

37. A city with the lowest number of film-watchers is

- (a) P
- (b) Q
- (c) R
- (d) S

38. The highest number of filmwatchers in any given city is

- (a) Q
- (b) R

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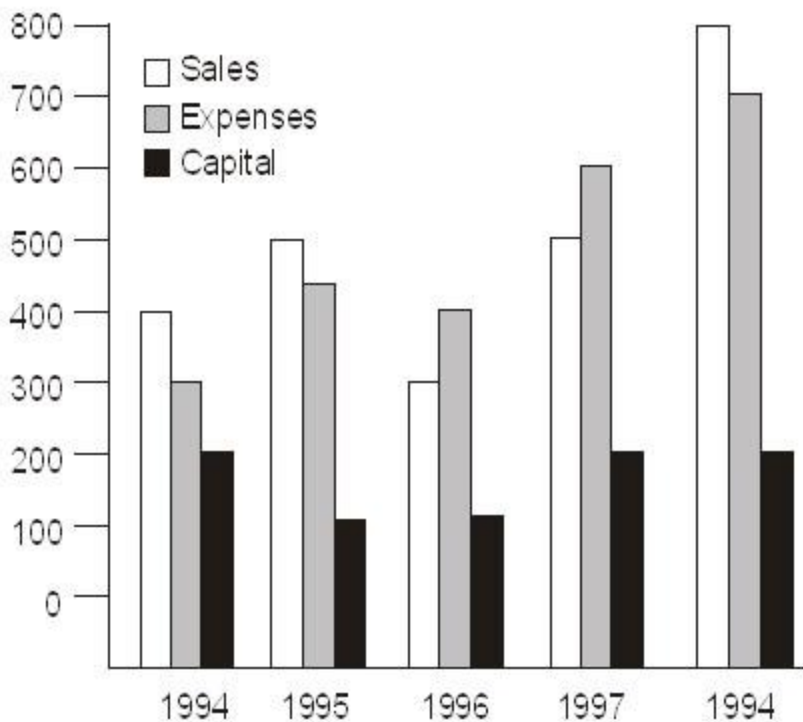
- (c) S
- (d) T

39. The total number of all filmwatchers in the five cities who see only one film in a week is

- (a) 113000
- (b) 425200
- (c) 452500
- (d) 500000

Directions: The following graph gives Sales, Expense and Capital of a company for a period of five years 1994 to 1998. .Read the graph and answer the questions

40 to 44.



$$\text{Profit} = \text{Sales} - \text{Expense}$$

40. What has been the simple average growth rate per annum of expense between 1994 and 1998?

- (a) 25%
- (b) 33 3
- (c) 40%
- (d) 130%

41. In which year was the Sales to Expense ratio the lowest?

- (a) 1994
- (b) 1996
- (c) 1997
- (d) 1998

42. What was the average per annum increase in sales (in Rs. cr.) from 1994 to 1998 ?

- (a) 50
- (b) 60
- (c) 80
- (d) 100

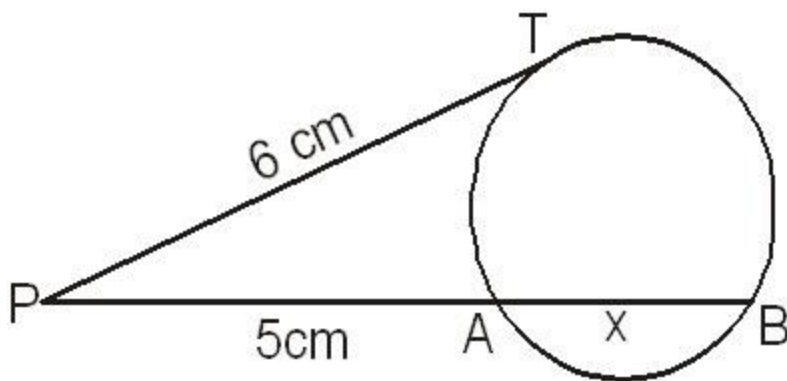
43. In which year was the ratio of profits to capital the highest?

- (a) 1998
- (b) 1995
- (c) 1996
- (d) 1997

44. In which year was the ratio of sales to capital the lowest ?

- (a) 1998
- (b) 1997
- (c) 1996
- (d) 1995

45. Find x in the adjoining figure



- (a) 1.6 cm
- (b) 2.2 cm
- (c) 3 cm
- (d) 2.6 c

46.

In the given figure, AB , CD , EF are concurrent straight lines which pass through O . If $\angle AOE = 90^\circ$ and $x : y = 21$, find $\angle DOB$ and $\angle COF$. General english.

- (a) 50° , 100°
- (b) 30° , 60°

(c) $45^\circ, 90^\circ$

(d) $25^\circ, 50^\circ$

47. Find the intercepts made by the line $2x - 3y + 6 = 0$ with the coordinate axes.

(a) 3, 2

(b) -3, 2

(c) -3, -2

(d) None of these

48. The equation of the line whose intercept on the axes are 4 and 3 is

(a) $3x - 4y = 10$

(b) $3x + 4y = 12$

(c) $-3x + 4y = 5$

(d) None of these

49. Which of the following expression is a monomial?

(a) x

(b) $-y^2$

(c) $2x^3$

(d) All the three

50.

If $f(x) = x^4 - 2x^3 + 2x^2 - x - 1$, find

$$f\left(-\frac{1}{2}\right)$$

(a) $\frac{9}{16}$

(b) $\frac{5}{16}$

(c) $\frac{3}{16}$

(d) $\frac{21}{16}$

ANSWERS

1. (b) 2. (c) 3. (d) 4. (c) 5. (d) 6. (b) 7. (b) 8. (c) 9. (d) 10. (b) 11. (b) 12. (b) 13. (b) 14. (c) 15. (c) 16. (a) 17. (c) 18. (d) 19. (c) 20. (b) 21. (c) 22. (d) 23. (d) 24. (d) 25. (c) 26. (b) 27. (c) 28. (b) 29. (d) 30. (b) 31. (a) 32. (c)

33. (b) 34. (d) 35. (c) 36. (d) 37. (b) 38. (d) 39. (c) 40.
(a) 41. (b) 42. (d) 43. (b) 44. (c) 45. (b) 46. (b) 47. (b)
48. (b) 49. (d) 50. (b)



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