# Qs. 1-20. What should come in place of the question mark (?) in the following questions?

1.  $963 + 560 \div 35 = ?$ 

(1)45

(2)981

(3)870

(4)43

(5) None of these

**2.**  $14400 \div 64 \div 9 = ?$ 

(1)27

(2)23

(3)29

(4)21

(5) None of these

**3.**  $14.8 \times 12.3 \times 8.6 = ?$ 

(1) 1555.454

(2) 1535.445

(3) 1545.545

(4) 1565.544

(5) None of these

4.45% of 720 = 30% of ?

(1)960

(2)1080

(3) 1240

(4)820

(5) None of these

**5.** 
$$3\frac{1}{6} + 4\frac{2}{3} - 1\frac{1}{4} = ?$$

(1)  $4\frac{1}{6}$ 

(2)  $6\frac{2}{9}$ 

(3)  $6\frac{7}{12}$ 

 $(4) 5\frac{1}{9}$ 

(5) None of these

**6.** 63251 + 52894 = ? + 37624

(1)87812

(2)67281

(3)76821

(4)78521

(5) None of these

**7.** 
$$7\frac{2}{7}$$
 of  $189 + 452 = 2000 - ?$ 

(1) 183

(2)164

(3)170

(4)198

(5) None of these

**8.** 68% of 595 - 43% of 372 = ?

(1)244.64

(2)232.84

(3) 278.44

(4) 260.24

(5) None of these

**9.** 35% of (?) = 2175.95

(1)6712

(2)6217

(3)6127

(4)6721

(5) None of these

**10.**  $? \div 52 \times 12 = 252$ 

(1)1242

(2)992

(3) 1142

(4) 1346

(5) None of these

**11.**  $(45)^2 + (21)^2 = (?)^2 + 257$ 

(1)51

(2)49

(3)45

(4)47

(5) None of these

**12.**  $90780 \div \sqrt{?} = 85 \times 12$ 

(1)89

(2)7921

(3)7569

(4)87

(5) None of these

**13.**  $1862 \div 28 = ?$ 

(1)66.5

(2)67

(3) 64.5

(4)69

(5) None of these

**14.** 63% of 962 + ? = 999

(1) 346.92

(2) 368.64

(3) 392.94

(4) 402.68

(5) None of these

15. 743 + 958 = 2% of 5670

(1)34

(2)26

(3) 30

(4)22

(5) None of these

16.  $\sqrt{5929} = ?$ 

(1)77

(2)83

(3)87

(4)93

(5) None of these

17.638 + 254  $\div$  8  $\times$  4 = ?

(1)646

(2)545

(3)446

(4)765

(5) None of these

**18.** 65% of 400 +  $\sqrt{?}$  = 44% of 800-12% of 400

(1)1936

(2)44

(3) 2116

(4)46

(5) None of these

**19.** 
$$\frac{18 \times 14 + 46}{16 \times 10 - 23} = ?$$

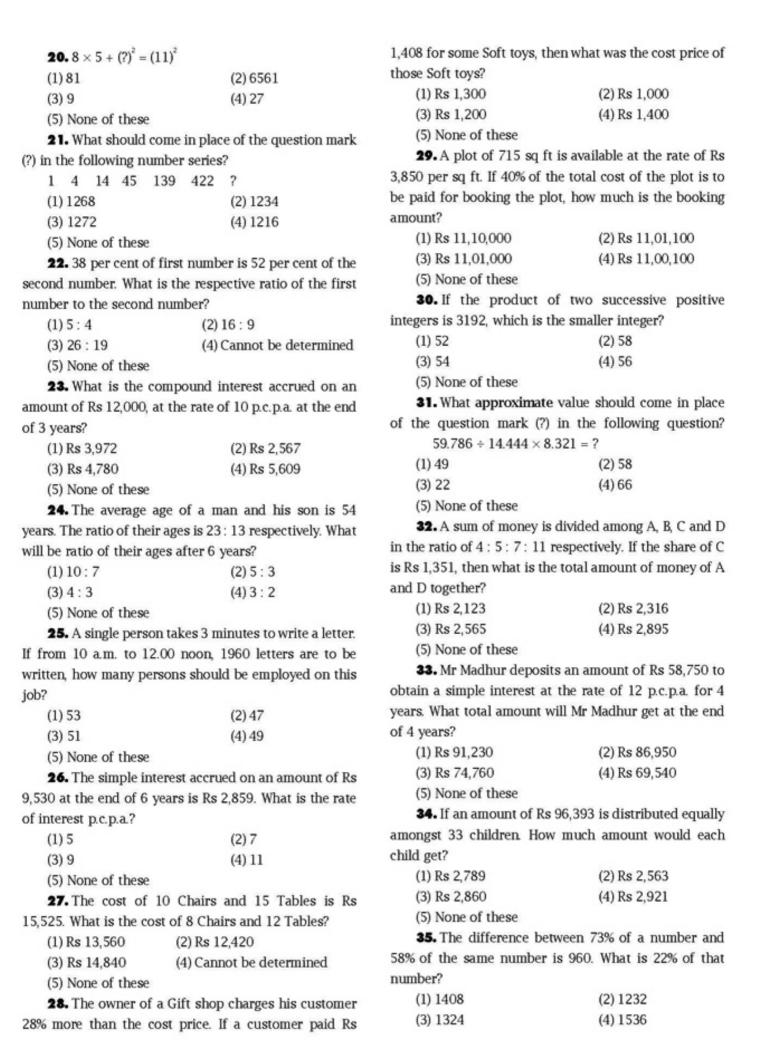
(1)  $1\frac{1}{2}$ 

(2)  $2\frac{24}{137}$ 

(3)  $4\frac{37}{138}$ 

 $(4) 3 \frac{32}{173}$ 

(5) None of these



- (5) None of these
- 36. One-seventh of a number is 39. What will be 56% of that number?
  - (1) 164.66

(2)152.88

(3) 178.22

- (4) 182.44
- (5) None of these
- **37.** In a class of 55 students and 3 teachers, each student got sweets that are 20% of the total number of students and each teacher got sweets that are 60% of the total number of students. How many sweets were there?
  - (1)737

(2)671

(3)714

- (4)638
- (5) None of these
- 38. If (108)<sup>2</sup> is added to the square of a number, the answer so obtained is 13033. What is the number?
  - (1)33

(2)43

(3)37

- (4)47
- (5) None of these
- 39. In an examination it is required to get 350 of the aggregate marks to pass. A student gets 32% marks and is declared failed by 70 marks. What are the maximum aggregate marks a student can get?
  - (1)885
- (2)865
- (3)875
- (4) Cannot be determined
- (5) None of these
- 40. Which number should replace both the question marks in the following equation?

$$\frac{?}{388} = \frac{97}{?}$$

(1)222

(2)196

(3)206

- (4)178
- (5) None of these

Al	ANSWERS AND EXPLANATIONS				
1. (5)	2. (5)	3. (4)			
4. (2)	5. (3)	6. (4)			
7. (5)	8. (1)	9. (2)			
10. (5)	11. (4)	12. (2)			
13. (1)	14. (3)	15. (3)			
16. (1)	17. (4)	18. (1)			
19. (2)	20. (3)				
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- 21. (3) Multiplying each term by 3 and adding 1, 2, 3, 4, 5, 6 we get the next nos
  - $\therefore$  Regd no. =  $422 \times 3 + 6 = 1272$ .

22. (3) 
$$\frac{38}{100}$$
 x =  $\frac{52}{100}$  y  $\Rightarrow \frac{x}{y} = \frac{26}{19}$ 

23. (1) C.I. = 12000 [
$$(11 + \frac{10}{100})^3 - 1$$
] = Rs 3972

24. (2) 
$$23x + 13x = 54 \times 2 \Rightarrow x = 3$$
  
Reqd ratio  $= \frac{23 \times 3 + 6}{13 \times 3 + 6} = \frac{5}{3}$ 

25. (4) 
$$\frac{1960}{(2 \times 60)} = 49$$
 [: a person can write

$$\frac{2 \times 60}{3} \text{ letters in given time}$$

26. (1) 
$$R = \frac{2859 \times 100}{9530 \times 6} = 5$$

$$Rate = 5\% \text{ p.a.}$$

27. (2) 
$$10x + 15y = 15525$$
  
 $\therefore 2x + 3y = 3105$  (i) [x=Cost of a chair Multiply (i) by 4, y = Cost of 1 table] we get,  $8x + 12y = 12420$ 

28. (5) Reqd cost = 
$$1408 \times \frac{100}{128}$$
 = Rs 1100

29. (2) Reqd amount = 
$$715 \times 3850 \times \frac{40}{100}$$
  
= Rs 11,01,100

- 30. (4)  $x(x+1) = 3192 \Rightarrow x = 56$
- 31. (5)

32. (4) 
$$\frac{7}{4+5+7+11} \times = 1351 \Rightarrow x = 193 \times 27$$
Read amount = 
$$\frac{4+11}{27} \times 193 \times 27$$
= Rs 2895

33. (2) 
$$A = 58750 + \frac{58750 \times 12 \times 4}{100}$$
$$= Rs 86950$$

34. (4) Each child gets = 
$$\frac{96393}{33}$$
 = Rs 2921

35. (1) 
$$\frac{(73-58)}{100}$$
 x = 960  $\Rightarrow$  x = 6400  
 $\therefore \frac{22}{100} \times 6400 = \text{Rs } 1408$ 

- 36. (2)
- 37. (5) Total sweats =  $(\frac{20}{100} \times 55) \times 55 + 3 \times (\frac{60}{100} \times 55)$ = 704

38. (3) 
$$x^2 + 108^2 = 13033 \Rightarrow x = 37$$

39. (3) 
$$\frac{32}{100}$$
x + 70 = 350  $\Rightarrow$  x = 875

40. (5) 
$$\frac{x}{388} = \frac{97}{x} \Rightarrow x = \sqrt{97 \times 388}$$
  
= 2 × 97 = 194

Qs. 1-25. What should come in place of the question mark (?) in the following questions?

- 1.  $[(4)^3 \times (5)^4] \div (4)^5 = ?$
- (1) 30.0925
- (2) 39.0625
- (3) 35.6015
- (4) 29.0825
- (5) None of these

2. 
$$\frac{1.6 \times 3.2}{0.08} = ?$$

- (1) 6.4
- (2)8
- (3)64
- (4) 0.8
- (5) None of these
- 3.  $(7857 + 3596 + 4123) \div 96 = ?$
- $(1)\ 155.06$
- (2) 162.25
- (3) 151.83
- (4) 165.70
- (5) None of these
- **4.** 741560 + 935416 + 1143 + 17364 = ?
- (1) 1694583
- (2) 1695438
- (3) 1695483
- (4) 1659483
- (5) None of these
- 5.  $(84)^2 \div \sqrt{?} = 168$
- (1) 1936
- (2)1521
- (3)1681
- (4) 1764
- (5) None of these
- 6. 514789 317463 87695 11207 = ?
- (1)96584
- (2)98242
- (3)96845
- (4)98424
- (5) None of these
- 7. 8926 ?% of 650 = 8848
- (1) 15
- (2)8
- (3)12
- (4) 10
- (5) None of these
- 8.  $\sqrt[3]{50653} = ?$
- (1)39
- (2)43
- (3)33
- (4) 41
- (5) None of these
- **9.**  $(17891 + 16239 26352) \times ? = 93336$
- (1) 12
- (2)15
- (3)18
- (4) 8
- (5) None of these
- 10.  $\frac{1}{4} \times 6624 \times \frac{1}{6} \times 12 = ?$
- (1) 3312
- (2)3864
- (3)2208
- (4)4416
- (5) None of these

11. 
$$\frac{18 \times 15 - 50}{(40 \times 80) \div 160} = ?$$

- (1) 20
- (2)8.5
- (3)11.5
- (4)22
- (5) None of these
- **12.** 36% of  $4800 \times 0.2\%$  of 1320 = ?
- (1) 4535.52
- (2) 4551.36
- (3) 4561.92
- (4) 4572.48

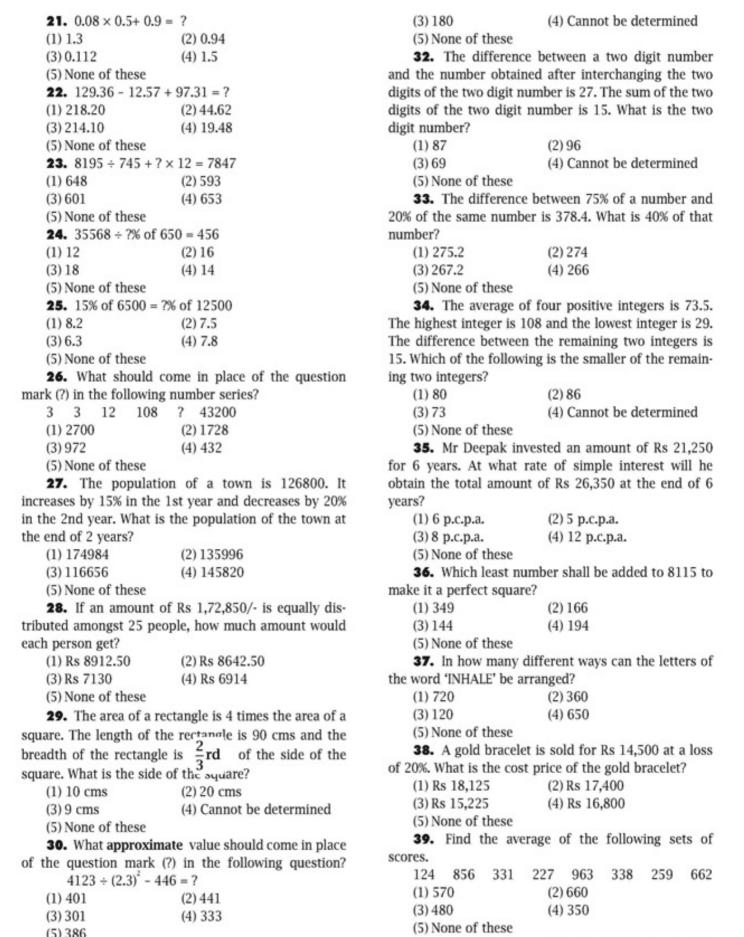
- (5) None of these
- **13.**  $\sqrt{?} \times \sqrt{1681} = 2296$
- (1) 2196
- (2)3364
- (3)2809
- (4) 3025
- (5) None of these
- **14.**  $93 \times 45 \div 25 = ?$
- (1) 167.4
- (2)837
- (3)279
- (4) 130.2
- (5) None of these
- **15.**  $0.08 \times ? \times 1.6 = 0.2944$
- (1) 1.3
- (2)0.4
- (3) 0.2
- (4) 2.3
- (5) None of these
- **16.**  $6 \times 66 \times 666 = ?$
- (1) 263736
- (2)267336
- (3) 263763
- (4) 263376
- (5) None of these

17. 
$$5\frac{1}{7} \times 8\frac{1}{6} \div 7\frac{7}{8} = ?$$

- (5) None of these

**18.** 
$$(7)^3 \div \sqrt{?} + 7 = 14$$

- (1)49
- (2)1764
- (3)441
- (4) 3136
- (5) None of these
- **19.**  $\sqrt[3]{12167} \times ? = 1035$
- (1)35
- (2)25
- (3)55
- (4) 15
- (5) None of these
- **20.**  $1256 \times 3892 = ?$ (1) 4883582
- (2) 4888352
- (3) 4888532
- (4) 4883852
- (5) None of these



**31.** If x + y = 18 and xy = 72, what is the value of

(2)90

 $(x)^2 + (y)^2$ ?

(1) 120

40. What approximate amount of compound

interest can be obtained on an amount of Rs 3,080 at

the rate of 7 p.c.p.a. at the end of 3 years?

- (1) Rs 586 (2) Rs 693 (3) Rs 646 (4) Rs 596
- (5) Rs 621
- **41.** Five bells begin to toll together at intervals of 9 seconds, 6 seconds, 4 seconds, 10 seconds and 8 seconds respectively. How many times will they toll together in the span of one hour (excluding the toll at the start)?
  - (1)5
- (2)8
- (3)10
- (4) Cannot be determined
- (5) None of these
- **42.** The ratio of the present ages of Sushma and Karishma is 6:7 respectively. The ratio of their ages 8 years hence would be 8:9 respectively. What would be the respective ratio of their ages after 12 years?
  - (1) 17:19
- (2) 15:17
- (3)9:10
- (4) 10:11
- (5) None of these
- 43. In an examination it is required to get 40% of the aggregate marks to pass. A student gets 265 marks and is declared fail by 55 marks. What is the maximum aggregate marks a student can get?
  - (1)800
- (2)750
- (3) 650
- (4) Cannot be determined
- (5) None of these
- 44. The sum of four consecutive even numbers A, B, C and D is 180. What is the sum of the set of next four consecutive even numbers?
  - (1)214
- (2)212
- (3)196
- (4) 204
- (5) None of these
- **45.** If the numerator of a fraction is increased by 200% and the denominator of the fraction is increased by 150%, the resultant fraction is  $\frac{9}{35}$ . What is the original fraction?
  - (1)  $\frac{3}{10}$
- (2)  $\frac{2}{15}$
- (3)  $\frac{3}{16}$
- $(4)\frac{2}{7}$
- (5) None of these
- **46.** 40% of 15% of  $\frac{3}{4}$ th of a number is 153. What is the number?
  - (1)3400
- (2)3650
- (3)3600
- (4) 3200
- (5) None of these
- 47. What is 786 times 964?
- (1) 759276
- (2)749844
- (3)75416
- (4) 757704
- (5) None of these
- 48. If (46)² is subtracted from the square of a number, the answer so obtained is 485. What is the number?
  - (1)49
- (2)51
- (3)56
- (4)53

- (5) None of these
- 49. In the following number series one of the numbers is wrong. Find out the wrong number.
  - 14 28
- 672

112

- (1) 112
- (2) 672 (4) 28

5374

53760

- (3)5374
- (5) None of these **50.** If 47a + 47b = 5452, what is the average of a and b?
  - (1) 116
- (2)23.5
- (3)96
- (4)58
- (5) None of these

	ANSWERS AND	EXPLANATION	S
1. (3)	2. (3)	3. (2)	4. (3)
5. (4)	6. (4)	7. (3)	8. (5)
9.(1)	10. (1)		

- 11. (5) Ans 11
- 12. (3)
- 13. (5)  $\sqrt{x} \times 41 = 2296$   $\sqrt{1681} = 41$  $\therefore \sqrt{x} = \frac{2296}{41} = 56$   $\therefore x = 56^2 = 3136$
- 14. (1)

18. (5) 
$$\frac{343}{\sqrt{x}} = 14 - 7 = 7 \Rightarrow \sqrt{x} = \frac{343}{7}$$
  
 $\sqrt{x} = 49 \Rightarrow x = 49^2 = 2401$ 

19. (5) 
$$\sqrt[3]{12167} = 23$$
 :  $x = \frac{1035}{23} = 45$ 

20. (2)

24. (1) 
$$\frac{35568}{456} = \frac{x}{100} \times 650 \Rightarrow x = 12$$

25. (4)

26. (2) Multiply by 1<sup>2</sup>, 2<sup>2</sup>, 3<sup>2</sup>, 4<sup>2</sup>, 5<sup>2</sup> to get the series

Regd. no. = 
$$108 \times 4^2 = 1728$$

27, (3) Reqd. population

$$= 126800 (1 + \frac{15}{100}) (1 - \frac{20}{100}) = 116656$$

28. (4) Rs 172850 ÷ 25 = Rs 6914

29. (5) 
$$L = 90$$
 cm,  $B = \frac{2}{3}a$ 

a = side of a square

$$90 \times \frac{2}{3}a = 4a^2 \Rightarrow a = 15 \text{ cm}$$

30. (4)

31. (3) 
$$x^2 + y^2 = (x + y)^2 - 2xy = 18^2 - 2 \times 72 = 180$$

32. (2) Let the digits at unit's and ten's places be x and y resp.

$$\therefore$$
 No. = 10y + x

ATS 
$$(10y + x) - (10x + y) = 27$$

$$\Rightarrow$$
 y - x = 3

Also y + x = 15

Solving the equs, we get

$$y = 9, x = 6$$

33. (1) 
$$\frac{75}{100}$$
x  $-\frac{20}{100}$ x  $=\frac{55}{100}$ x  $=378.4 \Rightarrow$ x  $=688$   
 $688 \times \frac{40}{100} = 275.2$ 

34. (5) 
$$73.5 \times 4 - 108 - 29 = x + y$$
  
 $\Rightarrow x + y = 157,$   
 $x - y = 15$ 

$$x = 86, y = 71$$

35. (5) 
$$\mathbf{R} = \frac{\mathbf{I} \times \mathbf{100}}{\mathbf{P} \times \mathbf{R}} = \frac{(26350 - 21250) \times \mathbf{100}}{21250 \times 6} = \mathbf{4}$$

$$36. (2) 90^2 < 8115 < 91^2$$

:. Reqd. least no. to be added

$$=91^2 - 8115 = 166$$

37. (1) INHALE

There are 6 different letters which can be arranged in 6! = 720 ways

38. (1) C.P. = 
$$\frac{\text{S.P.} \times 100}{(100 - \text{L}\%)} = 14500 \times \frac{100}{80} = \text{Rs } 18125$$

39. (5) Average = 
$$\frac{\text{Total Sum of Nos.}}{\text{No. of nos.}} = 470$$

40. (2) CI = P 
$$\left[ (1 + \frac{R}{100})^n - 1 = \text{Rs 693 (approx.)} \right]$$

41. (3) LCM of 9, 6, 4, 10, 8 = 360

360 secs. = 6 min utes

Five bells will toll together after every

:. Reqd. no. = In 1 hr they will toll together 10 times

42. (3) 
$$\frac{6x+8}{7x+8} = \frac{8}{9} \Rightarrow x = 4$$

:. Reqd. ratio = 
$$\frac{24+12}{28+12} = \frac{36}{40} = \frac{9}{10}$$

43. (1) 40% of 
$$x = 265 + 55 \Rightarrow x = 800$$

44. (2) 
$$x + (x + 2) + (x + 4) + (x + 6) = 180$$
  
 $\Rightarrow x = 42$ 

Regd. sum of next four consecutive even nos.

$$= (x + 8) + (x + 10) + (x + 12) + (x + 14)$$

$$= 4x + 44$$

$$= 4 \times 42 + 44 = 212$$

45. (5) 
$$\frac{\frac{100 + 200}{100}x}{\frac{100 + 150}{100}y} = \frac{9}{35} \Rightarrow \frac{x}{y} = \frac{3}{14}$$

46. (1) 
$$\frac{40}{100}$$
 of  $\frac{15}{100}$  of  $\frac{3}{4}$  of  $x = 153 \Rightarrow x = 3400$ 

47.(4)

48. (2) 
$$x^2 - 46^2 = 485 \Rightarrow x^2 = 2601 \Rightarrow x = 51$$

49. (3) Multiplying by 2, 4, 6, 8, 10 we get the next

∴ 5374 is wrong. It should be 5376

$$672 \times 8 = 5376$$

50. (4) 
$$\mathbf{a} + \mathbf{b} = \frac{5452}{47} = 116$$

:. Average of 
$$a + b = \frac{a + b}{2} = \frac{116}{2} = 58$$

# Quantitative Aptitude

(Contd. from page 65)

43. (1) 
$$R = \frac{I \times 100}{P \times T} = \frac{.40 \times 100}{1 \times 4} = Rs \ 10$$

Reqd. I = 
$$\frac{450 \times 10 \times 2}{100}$$
 = Rs 90

44. (5) Production in 2006

= 70 lakh tonnes 
$$(1 + \frac{8}{100})^2$$
  
= 81.648 lakh tonnes

45. (5) Computer A processes  $\frac{60}{3}$  i.e. 20 inputs in

Computer B processes  $\frac{60}{c} = 12$  inputs in

Inputs processed by A, B, C in 1 hour

$$= 14 \times 3 = 42$$

: Inputs processed by C in 1 hour

$$=42-(20+12)=10$$

Computer C alone takes  $\frac{60}{8} = 7\frac{1}{2}$  min utes

to process an input

46. (4)

47. (2) Let Rajan's salary be Rs x

$$\therefore \frac{1}{2} \text{ Sunita's salary} = \frac{2x}{5}$$

$$\therefore$$
 Sunita's salary =  $\frac{4x}{5}$ 

Ratio of Sunita's and Rajan's salary

$$=\frac{4x}{5}$$
: x = 4:5

Rajan's salary = 
$$\frac{5}{9} \times 36000$$
 = Rs 20,000

48. (3) Reqd. amount = 
$$\frac{54 \times 60}{54 - 9}$$
 = Rs 72

$$\therefore$$
 Additional amount = 72 - 60 = 12

49. (3) 
$$\frac{3x}{5x+21} = \frac{3}{8} \Rightarrow x = 7$$
: Managers =  $3x = 21$ 

50. (1) Change in decimals

- Q. 1-5. What will come in place of the question mark (?) in the following number series?
  - **1.** 3 19 115 691 ? 24883
  - (1) 6923
- (2) 4147
- (3)2719

- (4)1463
- (5) None of these
- 2. 5 10
- 20 ? 80 160
- (1) 30
- (2) 60
- (3)40

- (4)50
- (5) None of these
- **3.** 10 11 14 19 26 ?
- (1)40
- (2)25
- (3)39

- (4)27
- (5) None of these
- **4.** 1598 798 398 198 ? 48
  - (2)74
- (3)68

- (1) 56(4) 98
- (5) None of these
- **5.** 5 10 15 20 25 ?
  - - (2) 40

- (1) 35(4) 20
- (5) None of these
- Q. 6-25. What will come in place of the question mark(?) in the following questions?
  - **6.**  $\sqrt{625 + \sqrt{576}} = ?$
  - (1) 49
- (2) 8
- (3)54

- (5) None of these
- 7.  $\frac{1}{5}$  of  $\frac{1}{2}$  of  $\frac{1}{3}$  of ? = 19
- (1) 570
- (2) 750

- (4) 372
- (5) None of these
- **8.** 99.99 + 666.66 = ?
- (1) 728.59
- (2)766
- (3) 766.65
- (4) 676.95
  - (5) None of these
- 9. 17% of 95 = ?
- (1) 18.93
- (2) 16.15
- (3)61
- (4) 15.16
- (5) None of these
- **10.** 8 + 96 + 3 = ?
- (1) 109
- (2) 45
- (3)21

- (4) 39
- (5) None of these
- 11.  $x^2 \times x^3 = ?$
- (1) x2
- (2) x3
- $(3) x^5$

- (4) x4
- (5) None of these
- **12.**  $\frac{1}{x} + x = ?$
- (2)  $\frac{1+x^2}{x}$
- $(3) x^2 + 1$
- (4) 1 + x

- (5) None of these
- 13. ? % of 220 = 99
- (1) 45
- (2) 55
- (3)35

- (4) 40
- (5) None of these

(5) None of these

- 14, 6.5 0.13
- (1) 0.05
- (2) 0.5
- (3)5

- (4) 50
- **15.**  $3.75 \times 4.5 = ?$
- (1) 0.1687
- (2) 1.6875
- (3) 16.875

- (4) 6.875
- (5) None of these
- **16.** 7.8745 4.9352 = ?
- (1) 3.4156 (2) 3.1412
- (3) 2.9393
- (4) 2.3949 (5) None of these
- 17.  $17 \times 9 \times 4 = ?$
- (1) 612
- (2)621
  - (5) None of these
- (4) 561
- **18.**  $(56 + 4) \times 3 = ?$
- (1) 120
- (2)180
- (5) None of these (4) 86
- **19.**  $78 \div 13 \div 3 = ?$

20. 20% of 40 = ?

- (2)5(1) 18.00
  - (5) None of these

(2) 13

(3)50

(3)1

(3)201

(1) 8 (4) 15

(4) 2

- (5) None of these
- **21.**  $16 16 \div 2 = ?$
- (1) 8(2) 0.5
  - (5) None of these
- **22.**  $(8)^2 + (9)^2 + (4)^2 = ?$ 
  - (1) 221
    - (2)441
  - (4) 159 (5) None of these
- **23.** ?% of 84 = 10.08
- (1) 11(4) 12
- (2) 10
- (3)14(5) None of these

(3)22

(3)150

- **24.** 20% of 50 + 30% of 40 = ?
- (1) 15(2)18

**25.**  $6x^2 + 4 = 868$ ; x = ?

- (4) 20
- (5) None of these
- (2)12(3)56
- (4) 14
- (5)79
- One-third of three-fourth of a number is 30. What is the number?
  - (1) 90(4) 60

(1) 34

- (2)80
- (5) None of these

27. With a grow	th rate of 8%	per annum, what will	price was Rs 600?		
be the production of	of a company is	n 2002, if the produc-	(1) Rs 480	(2) Rs 360	(3) Rs 540
tion in 2000 is 1700	00?		(4) Rs 340	(5) None of t	hese
(1) 19720	(2) 19828.8	(3) 18360	39. The price of	of two tables a	nd three chairs is Rs
(4) Cannot be o	letermined	(5) None of these	5,600. What will b	oe the price of	f six tables and nine
28. A train runn	ing at speed o	f 90 km/hour crosses	chairs?		
a platform double i	ts length in 36	seconds. What is the	(1) Rs 16,800	(2) Rs 11,200	(3) Rs 22,400
length of the platfo	-		(4) Data inadeo		(5) None of these
(1) 450	(2) 200	(3) 300	40. The average	e age of 24 boys	s in a class is 11. When
(4) Cannot be o	determined	(5) None of these			average increases by
		series, one number is	one. What is the ag	ge of the teache	er?
wrong. Which is the			(1) 34 years	(2) 42 years	
11 13 19 2	6 35 46	59	(4) 48 years	(5) None of t	hese
(1) 19	(2) 46	(3) 13			articles @ Rs 35 per
(4) 35	(5) 26				%. At what price each
<b>30.</b> A sum of m	oney is to be	divided among Z, X, Y			that 60% profit was
		5:6 and another sum	earned?		
	-	equally. If Z got Rs	(1) Rs 45	(2) Rs 42	(3) Rs 39
2,000/- less than A,			(4) Rs 40	(5) None of t	hese
(1) Rs 10,000			42. The presen		l and Anil are in the
(4) Cannot be o		(5) None of these			years ago, the ratio of
31. If two-third	of one-fourth	of one-third of a num-			what is Anil's present
ber is 6, what is the	number?		age in years?		
(1) 108	(2) 144	(3) 96	(1) 16	(2) 14	(3) 10
(4) 78	(5) None of the	hese	(4) 12	(5) None of t	hese
<b>32.</b> A sum of	money fetche	s Rs 240 as simple	43. If the lengt	h and breadth	of a rectangular field
	•	er 6 years. What is the	_		by 50%. If the increase
principle amount?		•			ntage was the breadth
(1) Rs 200	(2) Rs 400	(3) Rs 800	increased?		
(4) Rs 1200			(1) 30%	(2) 25%	(3) 20%
		be distributed among	(4) Data inade		(5) None of these
		If R gets Rs 400 more	44. Surjeet Sing	gh's salary is 8	0% of Ranjeet's salary
		between P's and Q's		-	nat is Surjeet Singh's
share?		**************************************	salary if Ranjeet's		
(1) Rs 1,200	(2) Rs 800	(3) Rs 1,600	(1) Rs 10,000	•	(2) Rs 18,000
(4) Data inadeo		(5) None of these	(3) Rs 12,500		(4) Rs 10,500
	-	er is 12, what will be	(5) None of the	ese	
two-third of that nu					40% it becomes two-
(1) 40	(2) 20	(3) 80			s the ratio of the first
(4) 60	(5) None of the	hese	number to the seco	ond number?	
35. Prabir is for	ir years older	to Jayesh at present.	(1) 10:9	(2) 8:9	(3)9:8
		ages will be 3:2. What	(4) 9:10	(5) None of t	
is Jayesh's age at pr		0	46. What is the		
(1) 8 years	(2) 4 years	(3) 6 years	300.00		
(4) Data inadeo		(5) None of these	798.87 ×	199.87?	
		20 times its breadth.	(1) 90	(2) 70	(3) 100
	-	76 cms. What is the	(4) 80	(5) 110	
length of the rectan			47. By selling		270, 20% profit was
(1) 40 cms	(2) 36 cms	(3) 18 cms	earned. What is the		
(4) Data inadeo		(5) None of these	(1) Rs 216	(2) Rs 226	(3) Rs 254
	•	a work in twelve days.	(4) Rs 225	(5) None of t	
		ur men complete the			s 3,810 per 100 gms,
same work?			what will be the ap		
(1) 4	(2) 8	(3) 6	(1) Rs 900	(2) Rs 65	(3) Rs 6,000
(4) 3	(5) None of the	1	(4) Re 600	(5) De 750	

**38.** Amit purchased a book with a 10% discount on the labelled price. How much did he pay if the labelled

**49.** The area of a rectangular field is 2100 sq metres. If the field is 60 metres long, what is its

perimeter?

- (1) 180 metres
- (2) 200 metres
- (3) 240 metres
- (4) Cannot be determined
- (5) None of these

50. The mean of five consecutive numbers is 7. Which is the highest number?

(1) 8

(2)10

(3)7

- (4) Cannot be determined
- (5) None of these

#### ANSWERS AND EXPLANATIONS

- 1. (2) Multiplying each term by 6 and then adding 1, we get the next term
  - $\therefore$  Reqd. no. = 691 × 6 + 1 = 4147
- 2. (3) Each term is twice the preceding term
  ∴ Reqd. no. = 40
- 3. (5) Adding 1, 3, 5, 7, 9 ...to get the next term ∴ Reqd. no. = 26 + 9 = 35
- 4. (4) Subtract 2 from the term and then divide the diff. by 2 to get the next term

$$\frac{1598-2}{2} = 798$$

$$\frac{798-2}{2}=398$$

$$\frac{398-2}{2}=198$$

$$\frac{198-2}{2}=98$$

- 5. (5) All are multiples of 5. Re qd. no. = 30  $5 \times 1$ ,  $5 \times 2$ ,  $5 \times 3$ ,  $5 \times 4$ ,  $5 \times 5$ ,  $5 \times 6 = 30$
- 6. (4)  $\sqrt{25 + 24} = \sqrt{49} = 7$
- 7. (1)  $\frac{1}{5}$  of  $\frac{1}{2}$  of  $\frac{1}{3}$  of x = 19 $\Rightarrow x = 19 \times 5 \times 2 \times 3 = 570$
- 8. (3)
- 12. (2)
- 16. (3)
- 20. (1)
- 24. (3)
- 25. (2)  $\mathbf{x}^2 = \frac{868 4}{6} = 144 \Rightarrow \mathbf{x} = 12$
- 26. (5)  $\frac{1}{3}$  of  $\frac{3}{4}$  of  $x = 30 \Rightarrow x = 30 \times \frac{3}{1} \times \frac{4}{3} = 120$
- 27. (2) Reqd. production =  $17000 (1 + \frac{8}{100})^2$ = 19828.8
- 28. (5)  $\mathbf{x} + 2\mathbf{x} = \left(90 \times \frac{5}{18}\right) \times 36$   $\mathbf{D} = \mathbf{S} \times \mathbf{T}$  $\Rightarrow \mathbf{x} = 300$

Length of platform = 2x = 600 m

29. (3) Adding 3, 5, 7, 9, 11, 13, we get the next no. 11+3=14. 13 is wrong, it should be 14

30. (4)

31. (1) No. = 
$$6 \times \frac{3}{2} \times \frac{4}{1} \times \frac{3}{1} = 108$$

32. (3) 
$$P = \frac{I \times 100}{R \times T} = \frac{240 \times 100}{5 \times 6} = Rs \ 800$$

- 33. (2) Let the shares of P., Q & R be Rs 3x, 5x, 6x A.T.S. 6x - 5x = 400x = 400Reqd. diff. = 5x - 3x = 2x = Rs 800
- 34. (1)  $\frac{20}{100}$ x = 12  $\Rightarrow$  x = 60  $\frac{2}{3}$ x =  $\frac{2}{3}$  × 60 = 40
- 35. (2) Let Jayesh's present age be x yrs  $\therefore$  Prabir's present age = 4 + x yrs A.T.S.  $\frac{x+4+4}{x+4} = \frac{3}{2} \Rightarrow x = 4$
- 36. (5) A (rect.)=  $L \times B = 20B \Rightarrow L = 20$
- 37. (2) Reqd no. of days =  $\frac{16 \times 12}{24}$  = 8 days (It's a question of Inverse Variation)
- 38. (3) SP = M.P.  $\times \frac{(100 D\%)}{100} = 600 \times \frac{(100 10)}{100}$ = Rs 540
- $39. (1) \ 2x + 3y = 5600 \ ] \times 3$  6x + 9y = 16800  $x = Cost \ of \ 1 \ table$   $y = Cost \ of \ 1 \ chair$
- 40. (3) Age of teacher =  $25 \times 12 24 \times 11 = 36$  yrs
- 41. (4) Reqd. price =  $35 \times \frac{100}{140} \times \frac{160}{100} = \text{Rs } 40$
- 42. (1)  $\frac{7x-4}{8x-4} = \frac{5}{6} \Rightarrow x = 2$

∴ Anil's present age = 8x = 16 yrs

43. (2) New area

$$= \frac{120}{100} L \times \frac{(100 + x)}{100} B = \frac{150}{100} LB \Rightarrow x = 25$$

- 44. (5) Surject's salary =  $\frac{80}{100} \times 15000 = \text{Rs } 12000$
- $45.(1) \frac{60}{100} \mathbf{x} = \frac{2}{3} \mathbf{y} \Rightarrow \frac{\mathbf{x}}{\mathbf{y}} = \frac{10}{9}$
- 46. (3)  $\frac{400}{800} \times 200 = 100$  (approx.)
- 47. (4) C.P. =  $270 \times \frac{100}{120}$  = Rs 225
- 48. (4)
- 49. (5)  $B = \frac{\text{Area of a rect}}{L} = \frac{2100}{60} = 35 \text{m}$ P = 2(L + B) = 2(60 + 35) = 190 m
- 50. (5)  $\frac{\mathbf{x} + (\mathbf{x} + 1) + (\mathbf{x} + 2) + (\mathbf{x} + 3) + (\mathbf{x} + 4)}{5} = 7$   $\Rightarrow \mathbf{x} = 5$ Highest no. =  $\mathbf{x} + 4 = 5 + 4 = 9$

(?) in the following questions?

1. 92.5% of 550 = ?

Q. 1-5. What should come in place of question mark

(1) 506.45		(2) 521.65	(4) Rs 9,200	(5) None of the	ese
(3) 518.55		(4) 508.75			ompound interest
(5) None of	these				00 at the rate of 8
2. 124 ×12			p.c.p.a after 2 year		
(1) 12 <sup>7</sup>	(2) 12 <sup>39</sup>	(3)1217	(1) Rs 501.50	(2) Rs 499.20	(3) Rs 495
			(4) Rs 510	(5) None of the	ese
$(4)12^{-7}$	(4) None of	these	13. What is th	ne least number t	to be added to 4321
3. 12.22 + 2	22.21 + 221.12?		to make it a perfec	ct square?	
(1) 250.55		(2) 255.50	(1) 32	(2) 34	(3) 36
(3) 250.05		(4) 255.05	(4) 38	(5) None of the	ese
(5) None of	these	(1) 20000	<b>14.</b> 45% of a	number is 255.6.	What is 25% of that
	$6 \times 2.32) = ?$		number?		
(1) 12.5		(2) 14.5	(1) 162	(2) 132	(3) 152
(3) 10.5		(4) 8.5	(4) 142	(5) None of the	ese
(5) None of	these	(1) 010	<ol><li>Find the a</li></ol>	verage of the foll	lowing Set of Scores:
5. 78 ÷ 5 ÷			221, 231,	441, 359,	665, 525
(1) 15.6		(2) 31.2	(1) 399	(2) 428	(3) 407
(3) 7.8		(4) 20.4	(4) 415	(5) None of the	ese
(5) None of	these	(-)			n the square of the
		e of 2,924 kms. in 43		er so obtained is	6,460. What is the
hours. What is t			number?		
		/hr (3) 68 kms/hr	(1) 109	(2) 111	
	e determined	, , , ,		(5) None of the	
(5) None of					quired to get 40% of
		from the square of a			dent gets 261 marks
		ed is 567. What is the			arks. What are the
number?			maximum aggrega		nt can get?
(1) 36	(2) 28	(3) 42	(1) 700	(2) 730	(3) 745
(4) 48	(5) None of		(4) 765	4-7	
		ple interest obtained on			ivide an amount of
		rate of 6 p.c.p.a. after 3			he ratio of $7:8:6$
years?					is added to each of
*	.80 (2) Rs 1,66	6.80 (3) Rs 1,336.80			respective ratio of
(4) Rs 1,063	.80 (5) None of	these	their shares of am		
9. What is	333 times 131?		(1)8:9:6	(2) 7:9:5	(3) 7:8:6
(1) 46,323	(2) 43,623	(3) 43,290	(4) 8 : 9 : 7	(5) None of the	
(4) 42,957	(5) None of	these			unt of Rs 24,000 to of 14 p.c.p.a. for 8
10. The pr	oduct of two	successive numbers is			chi get at the end of
8556. What is th	e smaller numb	er?	8 years?		8
(1) 89	(2) 94	(3) 90	(1) Rs 52,080	(2) Rs 28,000	(3) Rs 50,880
(4) 92	(5) None of	f these	(4) Rs 26,880	(5) None of the	ese
11. The ow	ner of an elect	ronics shop charges his	20. The avera	ge of 5 consecuti	ive even numbers A,
customer 22% n	nore than the c	ost price. If a customer	B, C, D and E is 52	-	
			-1 -1	- In the pro-	

paid Rs 10,980 for a DVD Player, then what was the cost

(2) Rs 8,800

(3) Rs 9,500

price of the DVD Player?

(1) Rs 8,000

- (1)2912
- (2)2688
- (3)3024

- (4)2800
- (5) None of these
- 21. The difference between 42% of a number and 28% of the same number is 210. What is 59% of that number?
  - (1)630
- (2)885
- (3)420

- (4) 900
- (5) None of these
- 22. What approximate value should come in place of the question mark (?) in the following question?
  - $4275 : 496 \times (21)^2 = ?$
  - (1)3795
- (2)3800
- (3)3810

- (4)3875
- (5)3995
- 23. A canteen requires 112 kgs of wheat for a week. How many kgs of wheat will it require for 69 days?
  - (1) 1,204 kgs
- (2) 1,401 kgs
- (3) 1,104 kgs

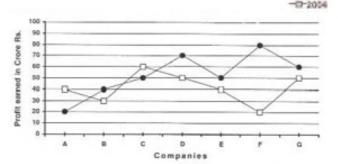
- (4) 1.014 kgs
- (5) None of these
- 24. If an amount of Rs 41,910 is distributed equally amongst 22 persons. How much amount would
- each person get? (1) Rs 1,905
- (2) Rs 2,000
- (3) Rs 1,885

- (4) Rs 2,105
- (5) None of these
- **25.** The cost of 4 Cell-phones and 7 Digital cameras is Rs 1,25,627. What is the cost of 8 Cell-phones and 14 Digital cameras?
  - (1) Rs 2,51,254 (2) Rs 2,52,627 (3) 2,25,524
  - (4) Cannot be determined
  - (5) None of these
- Q. 26-30. Each of the questions below consists of a question and two statements numbered I and II are given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer:
  - if the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.
  - (2) if the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.
  - (3) if the data in Statement I alone or in Statement II alone are sufficient to answer the question.
  - (4) if the data in both the Statements I and II are not sufficient to answer the question.
  - (5) if the data in both the Statements I and II together are necessary to answer the question.
  - 26. What is the area of the circle?
    - I. Perimeter of the circle is 88 cms.
    - II. Diameter of the circle is 28 cms.
  - 27. What is the rate of interest?
    - I. Simple interest accrued on an amount of Rs 25,000 in two years is less than the compound interest for the same period

- by Rs 250.
- II. Simple interest accrued in 10 years is equal to the principal.
- 28. What is the number of trees planted in the field in rows and columns?
  - Number of columns is more than the number of rows by 4.
  - Number of trees in each column is an even number.
  - 29. What is the area of the right-angled triangle?
    - Height of the triangle is three-fourth of the base.
    - II. Diagonal of the triangle is 5 metres.
  - 30. What is the father's present age?
    - Father's present age is five times the son's present age.
    - II. Five years ago the father's age was fifteen times the son's age that time.
- Q. 31-35. Study the following graph carefully to answer these questions:

Profit earned (in Crore Rs) by Seven Companies during 2003-2004

Profit = Income - Expenditure



- **31.** What is the ratio between the profit earned by Company A in 2004 and the profit earned by Company B in 2003 respectively?
  - (1)4:3
- (2)3:2
- (3)3:4

- (4)2:3
- (5) None of these
- **32.** What is the difference (in Crore Rs) between the total profit earned by Companies E, F and G together in 2003 and the total profit earned by these companies in 2004?
  - (1)70
- (2)75
- (3)78
- (4) 82
- **33.** What is the ratio between the total profit earned by Company C in 2003 and 2004 together and the total profit earned by Company E in these two years respectively?

(5) None of these

- (1) 11:9
- (2) 9:10
- (3) 10:11

- (4) 11:10
- (5) None of these
- 34. What was the average profit earned by all the companies in 2003? (In Crore Rs Rounded-Off to two digits after decimal).
  - (1)52.75
- (2) 53.86
- (3)52.86

- (4)53.75
- (5) None of these
- 35. Profit earned by Company B in 2004 is what per cent of the profit earned by the same company in 2003?
  - (1) 133.33
- (2)75
- (3) 67.66

- (4)75.25
- (5) None of these
- Q. 36-40. Study the following table carefully to answer these questions:

## TABLE GIVING PERCENTAGE OF UNEMPLOYED MALE AND FEMALE YOUTH AND THE TOTAL POPULATION FOR DIFFERENT STATES IN 2005 AND 2006

		2005			2006	
STATE	M	F	T	M	F	T
Α	12	15	32	7	8	35
В	8	7	18	10	9	20
С	9	10	28	10	12	34
D	10	6	24	8	8	30
E	6	8	30	7	6	32
F	7	5	28	8	7	35

- M = Percentage of unemployed Male youth over total population
- F = Percentage of unemployed Female youth over total population
- T = Total population of the State in lakhs
- 36. What was the total number of unemployed youth in State A in 2006?
  - (1) 2,20,000

(2) 3,25,000

(3) 5,20,000

- (4) 5,25,000
- (5) None of these
- 37. How many female youth were unemployed in State D in 2005?
  - (1) 14,400

(2) 1,44,000

(3) 1,40,000

- (4) 14,000
- (5) None of these
- 38. Number of unemployed male youth in State A in 2005 was what per cent of the number of unemployed female youth in State E in 2006?
  - (1)66
- (2)50
- (3)200

- (4) 133
- (5) None of these
- 39. What was the difference between the number of unemployed male youth in State F in 2005 and the number of unemployed male youth in State A in 2006?
  - (1)70,000

(2)45,000

(3) 68,000

- (4) 65,000
- (5) None of these
- **40.** What was the respective ratio between unemployed male youth in State D in 2005 and the unemployed male youth in State D in 2006?
  - (1) 1 : 1
- (2)2:3
- (3) 3 : 2

- (4)4:5
- (5) None of these

#### ANSWERS AND EXPLANATIONS

- 1.(4)
- 2.(3)
- 3. (5) Ans. 255.55
- 4.(1)
- 5.(2)
- 6. (3) Speed =  $\frac{\mathbf{D}}{\mathbf{t}}$
- 7. (1)  $x^2 9^3 = 567 \Rightarrow x = 36$
- 8. (1)  $S.L = \frac{5760 \times 6 \times 3}{100} = Rs1036.80$
- 9. (2) Ans. 43623
- 10. (4)  $\mathbf{x}(\mathbf{x}+1) = 8556 \Rightarrow \mathbf{x} = 92$
- 11. (5)  $\frac{122}{100}$ x = 10980  $\Rightarrow$  x = Rs 9000

12. (2) C.I. = 
$$P\left[\left(1 + \frac{R}{100}\right)^n - 1\right]$$
  
= 3000  $\left[\left(1 + \frac{8}{100}\right)^2 - 1\right]$  = Rs 499.20

13. (5) 
$$\begin{array}{c|c} 65 \\ 6 \\ \hline 4321 \\ 36 \\ \hline 125 \\ \hline 721 \\ \hline 625 \\ \hline 96 \\ \end{array}$$
  $\begin{array}{c|c} 65^2 < 4321 < 66^2 \\ \hline Reqd. \ no. = 66^2 - 4321 = 35 \\ \hline \end{array}$ 

14. (4) 
$$\frac{45}{100}$$
 of  $x = 255.6 \Rightarrow x = 255.6 \times \frac{100}{45}$   
  $\therefore \frac{25}{100} \times 255.6 \times \frac{100}{45} = 142$ 

- 15. (3)
- 16. (5)  $x^2 78^2 = 6460 \Rightarrow x = 112$

17. (5) 
$$\frac{40}{100}$$
x = 261 +  $\frac{4}{100}$ x  $\Rightarrow$  x = 725

18. (4) Shares of Pinku, Rinku and Tinku in

Rs 4200 are 
$$\frac{7}{7+8+6} \times 4200$$
,  $\frac{8}{21} \times 4200$ ,

 $\frac{6}{21}$  × 4200 *i.e.* 1400, Rs 1600, Rs 1200

Regd. ratio

$$= (1400 + 200) : (1600 + 200) : (1200 + 200)$$
  
= 8:9:7

19. (3) Total Amount

$$= \text{Rs } 24000 + \frac{24000 \times 14 \times 8}{100} = \text{Rs } 50880$$

20. (4) 
$$A + B + C + D + E$$
  
 $x + (x + 2) + (x + 4) + (x + 6) + (x + 8)$   
 $= 5 \times 52 \Rightarrow x = 48 = A, B = 50$   
 $\therefore E = 48 + 8 = 56$ 

$$\therefore BE = 50 \times 56 = 2800$$

21. (2) (42 – 28)% of 
$$x = 210 \Rightarrow x = 210 \times \frac{100}{14}$$
  
= 1500

$$\therefore \frac{59}{100} \times 15 = 885$$

22. (2) Use BODMAS

23. (3) 
$$\frac{112}{7} \times 69 = 1104 \text{ kg}$$

= Reqd. quantity of wheat

24. (1)

25. (1) 
$$4x + 7y = 125627 \times 2$$
  
 $\therefore 8x + 14y = 251254$ 

26. (3) 
$$2\pi \mathbf{r} = 88 \Rightarrow \mathbf{r} = \frac{88}{2\pi}$$
  
 $\mathbf{r} = \frac{D}{2} = \frac{28}{2} = 14$ 

Either (i) or (ii) is reqd.

$$A = \pi r^2$$

27. (3) 
$$250 = 25000 \left[ (1+R)^2 - 1 \right] - 25000 \times R \times 2$$
  
or  $R = \frac{x \times 100}{x \times 10} = 10\%$ 

From either of statement we can find R

28. (4)

29. (5) 
$$\mathbf{x}^2 + \left(\frac{3}{4}\mathbf{x}\right)^2 = 5^2 \Rightarrow \mathbf{x} = 4$$
,  
 $\mathbf{h} = \frac{3}{4} \times 4 = 3$   
 $\mathbf{Area} = \frac{1}{2} \left[\mathbf{x} \times \frac{3}{4}\mathbf{x}\right] = \frac{1}{2} \left(4 \times 3\right) = 6 \text{ sq. units}$ 

Both (i) and (ii) statements are reqd.

30. (5) Let son's present age be x

∴ Father's present age = 5x

ATS 
$$5x - 5 = 15 (x - 5) \Rightarrow x = 7$$

 $\therefore \textbf{Father's present age} = 35 \ \textbf{yrs}$ 

31. (5) 
$$\frac{40}{40} = \frac{1}{1}$$

32. (5) Diff = 
$$(50 + 80 + 60) - (40 + 20 + 50) = 80$$

33. (1) Reqd ratio = 
$$\frac{50 + 60}{40 + 50} = \frac{11}{9}$$

34. (3)

35. (2) 
$$30 = x\%$$
 of  $40 \Rightarrow x = 75$ 

40. (1) 
$$\frac{\frac{10 \times 24}{100}}{\frac{8 \times 30}{100}} = 1:1$$

Q. 1-24. What should come in place of the question mark (?) in the following questions?

- 1. 2827 + 3285 + 5025 = ?
- (1) 10137
- (2)11137
- (3) 10187

- (4) 11257
- (5) None of these
- **2.** 2860 1320 1259 = ?
  - (2)251
- (3)261

- (1)271(4)281
- (5) None of these
- 3.  $539 \times 627 = ?$
- (1) 330953
- (2)337953
- (3) 338953

- (4) 327953
- (5) None of these
- 4.  $754 \div 26 = ?$
- (1)29
- (2)28

- (4)26
- (5) None of these
- **5.** 876.23 + 729.49 = ?
- (1) 1600.72
- (2) 1505.22
- (3) 1605.72

- (4) 1402.22
- (5) None of these
- **6.** 436.729 211.116 107.102 = ? (1) 108.411
  - (2) 218.501
- (3) 117.412

- (4) 118.511
- (5) None of these
- **7.**  $6.5 \times 7.5 \times 8.5 = ?$
- (1) 414.375
- (2) 415.375
- (3)413.475

- (4) 414.015
- (5) None of these

**8.** 
$$\frac{350 \times 25}{8 \times 2.5} = ?$$

- (1)437.5
- (2)8750
- (3) 1093.75

- (4)364.5
- (5) None of these
- **9.** 287.35 + 398.69 = 395.02 + ?
- (1) 292.02
- (2) 291.02
  - (3)293.02
- (4) 290.62
- (5) None of these
- **10.**  $5 \times ? = 23.5$
- (1)4.8
- (2)4.7
- (3)4.85

- (4)4.65
- (5) None of these
- **11.**  $1012 + 1084 = ? \times 25$
- (1)84.84
- (2)82.84
- (3)83.84

- (4)82.74
- (5) None of these
- **12.**  $628 \div ? = 125.6$
- (1)5
- (2) 3
- (3)4.8

- (4) 2.5
- (5) None of these
- **13.**  $? \times 19 = 4750$
- (1)25
- (2)2500
- (3)270

- (5) None of these

**14.** 
$$\frac{15 \times 15 \times 15}{5 \times 3 \times 2} = ?$$

- (1)15
- (2)60
- (3)225

- (4) 112.5 (5) None of these
- **15.**  $125 + 265 \times 9 = ?$
- (1) 2510
- (2)3510
- (3)399

- (4) 298.125
  - (5) None of these
- **16.**  $361 \div 19 + 11 = ?$
- (1) 20
- (3)27

- (4)31
- (5) None of these

17. 
$$\frac{2}{5}$$
 of 350 + 30% of 250 = ?

- (1)115
- (2)215
- (3)225

- (4)125
- (5) None of these

**18.** 
$$\frac{4}{5}$$
 of  $460 + \frac{3}{4}$  of  $220 = ?$ 

- (1)530
- (2)533
- (3)532

- (4)534
- (5) None of these

**19.** 
$$\frac{2}{5} + \frac{3}{13} + \frac{4}{13} = ?$$

- (1)  $\frac{61}{65}$  (2)  $\frac{9}{13}$

- (5) None of these

**20.** 
$$65 + \sqrt{?} = 83$$

- (1) 334 (2) 224

- (4)254
- **21.**  $\sqrt{225} + \sqrt{256} = ?$
- (1) 15
- (2)16(5) None of these

(5) None of these

(4) 41 (5) **22.** 
$$\sqrt{?} - 44 = 25$$

- (1)4671
- (2)4771
- (3)1100

- (4) 2200
- (5) None of these

**23.** 
$$\frac{(16)^2 + 152 \div 4}{15} = ?$$

- (1) 18.6
- (2) 18.5
- (3) 19.6
- (4) 19.7
- (5) None of these

**24.** 
$$13\frac{3}{4} + 16\frac{1}{4} + 7\frac{1}{2} = ?$$

- (1) 35 (2) 25

- (4)  $35\frac{1}{2}$  (5) None of these
- 25. In the following series a wrong number is

	3 79 95		present age. If the d		
(1) 15	(2) 31	(3) 46	is 35 years, what is	his father's pres	ent age?
(4) 63	(5) 79		(1) 32 years	(2) 42 years	(3) 52 years
<b>26.</b> The sum (	of three consecut	ive integers is 30.	(4) 44 years	(5) None of thes	se
Which of the follow	ing is the largest	among the three?	<ol><li>Rani boug</li></ol>	ht a piece of clo	th for Rs 950 and
(1) 12	(2) 13	(3) 14	spent Rs 300 on de	esigning it. At wh	at price should she
(4) 10	(5) None of thes	e	sell it to make 30%	profit?	
27. Each stude	ent of a class of	45 students has to	(1) Rs 1,650	(2) Rs 1,550	(3) Rs 1,525
be given 2 pens and	d 3 pencils. If the	price of a pencil is	(4) Rs 1,625	(5) None of thes	se
Re 1 and that of a p	en is Rs 4, then w	hat will be the total	38. The ratio	of the length	and breadth of a
price of the pens ar	nd pencils for the	whole class?	rectangular plot is	4:3 respectively	. The perimeter of
(1) Rs 485	(2) Rs 490	(3) Rs 495	the plot is 28 metr	es. What is the le	ength of the plot in
(4) Rs 395	(5) None of thes		metres?		
		purchased at the	(1) 20	(2) 12	(3) 16
rate of Rs 8.00 per			(4) 14	(5) None of thes	
the rate of Rs 10.00					iled, 60% students
Ram sell the mixtur	-		secured average n		-
(1) Rs 11.00	(2) Rs 11.25	(3) Rs 12.25	scored above avera	age marks. How	many students are
(4) Rs 12.50	(5) None of thes	e	there in the class?		
		nother is added to	(1) 25	(2) 20	(3) 30
the present age of			(4) Cannot be d		
What will be their t		after 5 years?	(5) None of the		
(1) 45	(2) 50	(3) 40			adth of a rectangle
(4) 55	(5) None of thes		is 5:2 respectively.		•
		e in English, 50%	and area is 1:3 (in		e unit). What is the
books are in Hindi		T	length of the rectar	T	
languages. What is	the total number	er of books in the	(1) 27 units	(2) 32 units	(3) 21 units
library?			(4) Cannot be d		
(1) 2700	(2) 2750	(2) 2555	(5) Mana of the	SP	
(1) 2700		(3) 2555	(5) None of the		
(4) 2500	(5) None of thes	e	41. In a garder	n, the ratio of the	number of coconut
(4) 2500 <b>31.</b> The averag	(5) None of thes ge age of a brothe	e r and sister was 35	41. In a garder trees to that of ma	n, the ratio of the ngo trees is 5:6	respectively, If the
(4) 2500 <b>31.</b> The averagy years 5 years ago.	(5) None of thes ge age of a brothe	e r and sister was 35	<b>41.</b> In a garder trees to that of mattotal number of tre	n, the ratio of the ngo trees is 5 : 6 ees is 121, then 1	respectively, If the
(4) 2500 31. The averagy years 5 years ago. present?	(5) None of thes ge age of a brothe What will be th	r and sister was 35 eir average age at	<b>41.</b> In a garder trees to that of mattotal number of trees are there in the	n, the ratio of the ngo trees is 5:6 ees is 121, then l ne garden?	respectively, If the how many coconut
(4) 2500 31. The averagy years 5 years ago. present? (1) 37.5	(5) None of these age of a brother What will be the (2) 42	r and sister was 35 eir average age at (3) 80	<b>41.</b> In a garder trees to that of mattotal number of trees are there in the (1) 50	n, the ratio of the ngo trees is 5:6 ees is 121, then be ne garden? (2) 45	respectively, If the how many coconut (3) 56
(4) 2500 <b>31.</b> The averagy years 5 years ago. present? (1) 37.5 (4) 40.5	(5) None of thes ge age of a brother What will be th (2) 42 (5) None of thes	r and sister was 35 eir average age at (3) 80	41. In a garder trees to that of mat total number of tre trees are there in th (1) 50 (4) 55	n, the ratio of the ngo trees is 5 : 6 ees is 121, then be ne garden? (2) 45 (5) None of thes	respectively, If the how many coconut (3) 56 se
(4) 2500 <b>31.</b> The averagy years 5 years ago. present? (1) 37.5 (4) 40.5 <b>32.</b> What will 1	(5) None of these age of a brother What will be the (2) 42 (5) None of these be the cost of 9 V	r and sister was 35 eir average age at (3) 80	41. In a garder trees to that of mattotal number of trees are there in the (1) 50 (4) 55 42. Price of 25	n, the ratio of the ngo trees is 5:6 ees is 121, then in ne garden? (2) 45 (5) None of thes 50 gms of mango	respectively, If the how many coconut (3) 56
(4) 2500 <b>31.</b> The averagy years 5 years ago. present? (1) 37.5 (4) 40.5 <b>32.</b> What will is sets cost Rs 15,500	(5) None of these age of a brother What will be the (2) 42 (5) None of these be the cost of 9 versions.	r and sister was 35 eir average age at (3) 80 se VCD sets if 5 such	41. In a garder trees to that of mattotal number of trees are there in the (1) 50 (4) 55 42. Price of 25 is the price of 5 kgs	n, the ratio of the ngo trees is 5:6 ees is 121, then be ne garden? (2) 45 (5) None of thes so of mangoes?	respectively, If the how many coconut (3) 56 se es is Rs 7.50. What
(4) 2500 <b>31.</b> The averagy years 5 years ago. present? (1) 37.5 (4) 40.5 <b>32.</b> What will sets cost Rs 15,500 (1) Rs 26,800	(5) None of these age of a brother What will be the (2) 42 (5) None of these be the cost of 9 very (2) Rs 27,800	r and sister was 35 eir average age at  (3) 80 se VCD sets if 5 such  (3) Rs 27,900	41. In a garder trees to that of mattotal number of trees are there in the (1) 50 (4) 55 42. Price of 25 is the price of 5 kg (1) Rs 120	n, the ratio of the ngo trees is 5:6 ees is 121, then be ne garden? (2) 45 (5) None of thes 50 gms of mango s of mangoes? (2) Rs 135	respectively, If the how many coconut (3) 56 se es is Rs 7.50. What (3) Rs 150
(4) 2500 <b>31.</b> The averagy years 5 years ago. present? (1) 37.5 (4) 40.5 <b>32.</b> What will sets cost Rs 15,500 (1) Rs 26,800 (4) Rs 27,500	(5) None of these age of a brother What will be the (2) 42 (5) None of these be the cost of 9 very (2) Rs 27,800 (5) None of these very (6) None of these very (	r and sister was 35 eir average age at  (3) 80 se VCD sets if 5 such  (3) Rs 27,900 se	41. In a garder trees to that of mattotal number of trees are there in the (1) 50 (4) 55 (4) Frice of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145	n, the ratio of the ngo trees is 5:6 ees is 121, then in ne garden? (2) 45 (5) None of thes 50 gms of mango s of mangoes? (2) Rs 135 (5) None of thes	respectively, If the how many coconut (3) 56 se es is Rs 7.50. What (3) Rs 150 se
(4) 2500 <b>31.</b> The averagy years 5 years ago. present? (1) 37.5 (4) 40.5 <b>32.</b> What will is sets cost Rs 15,500 (1) Rs 26,800 (4) Rs 27,500 <b>33.</b> Which is the	(5) None of these age of a brother What will be the (2) 42 (5) None of these be the cost of 9 very (2) Rs 27,800 (5) None of these age highest of the formula (5) the formula	r and sister was 35 eir average age at  (3) 80 se VCD sets if 5 such  (3) Rs 27,900 se ollowing fractions?	41. In a garder trees to that of mate total number of trees are there in the (1) 50 (4) 55 (42. Price of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145 (43. A series of 5)	n, the ratio of the ngo trees is 5:6 ees is 121, then be garden? (2) 45 (5) None of thes of mangoes? (2) Rs 135 (5) None of thes of numbers is g	respectively, If the how many coconut  (3) 56 se es is Rs 7.50. What  (3) Rs 150 se iven below. Which
(4) 2500 <b>31.</b> The averagy years 5 years ago. present? (1) 37.5 (4) 40.5 <b>32.</b> What will is sets cost Rs 15,500 (1) Rs 26,800 (4) Rs 27,500 <b>33.</b> Which is the	(5) None of these age of a brother What will be the (2) 42 (5) None of these be the cost of 9 very (2) Rs 27,800 (5) None of these age highest of the formula (5) the formula	r and sister was 35 eir average age at  (3) 80 se VCD sets if 5 such  (3) Rs 27,900 se ollowing fractions?	41. In a garder trees to that of mate total number of trees are there in the (1) 50 (4) 55 (42. Price of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145 (43. A series of number should contain the trees are there in the (1) 50 (4) 55 (4) 65 (	n, the ratio of the ngo trees is 5:6 ees is 121, then be garden? (2) 45 (5) None of thes 50 gms of mangoes? (2) Rs 135 (5) None of thes of numbers is given in place of the	respectively, If the how many coconut  (3) 56 se es is Rs 7.50. What  (3) Rs 150 se iven below. Which
(4) 2500 <b>31.</b> The average years 5 years ago. present? (1) 37.5 (4) 40.5 <b>32.</b> What will is sets cost Rs 15,500 (1) Rs 26,800 (4) Rs 27,500 <b>33.</b> Which is the cost Rs 15 is the cost Rs 15.500	(5) None of these age of a brother. What will be the (2) 42 (5) None of these be the cost of 9 very (2) Rs 27,800 (5) None of these highest of the form (2) $\frac{3}{5}$	r and sister was 35 eir average age at  (3) 80 se VCD sets if 5 such  (3) Rs 27,900 se	41. In a garder trees to that of mate total number of trees are there in the (1) 50 (4) 55 (4) Frice of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145 (4) A series of number should come 6 36 216 1	n, the ratio of the ngo trees is 5:6 ees is 121, then he garden? (2) 45 (5) None of thes 50 gms of mangoes? (2) Rs 135 (5) None of thes of numbers is given in place of the 296?	respectively, If the how many coconut  (3) 56 se es is Rs 7.50. What  (3) Rs 150 se iven below. Which question mark (?) ?
(4) 2500 <b>31.</b> The average years 5 years ago. present? (1) 37.5 (4) 40.5 <b>32.</b> What will is sets cost Rs 15,500 (1) Rs 26,800 (4) Rs 27,500 <b>33.</b> Which is the cost Rs 15 is the cost Rs 15.500	(5) None of these age of a brother. What will be the (2) 42 (5) None of these be the cost of 9 very (2) Rs 27,800 (5) None of these highest of the form (2) $\frac{3}{5}$	r and sister was 35 eir average age at  (3) 80 se VCD sets if 5 such  (3) Rs 27,900 se ollowing fractions?	41. In a garder trees to that of mar total number of trees are there in the (1) 50 (4) 55 (42. Price of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145 (43. A series of number should come 6 36 216 1 (1) 1596	n, the ratio of the ngo trees is 5:6 ees is 121, then he garden? (2) 45 (5) None of thes 50 gms of mangoes? (2) Rs 135 (5) None of thes of numbers is given in place of the 296 (2) 7016	respectively, If the how many coconut  (3) 56 se es is Rs 7.50. What  (3) Rs 150 se iven below. Which question mark (?)?
(4) 2500 <b>31.</b> The average years 5 years ago. present?  (1) 37.5  (4) 40.5 <b>32.</b> What will is sets cost Rs 15,500  (1) Rs 26,800  (4) Rs 27,500 <b>33.</b> Which is the content of the conte	(5) None of these age of a brother. What will be the cost of 9 to 2?  (2) Rs 27,800  (5) None of these age of a brother. (2) Rs 27,800  (5) None of these age highest of the form (2) $\frac{3}{5}$ (5) $\frac{2}{3}$	r and sister was 35 eir average age at  (3) 80 se VCD sets if 5 such  (3) Rs 27,900 se ollowing fractions?  (3) 5/8	41. In a garder trees to that of mar total number of trees are there in the (1) 50 (4) 55 (42. Price of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145 (4) A series of number should come 6 36 216 1 (1) 1596 (4) 8776	n, the ratio of the ngo trees is 5:6 ees is 121, then be garden?  (2) 45  (5) None of thes 50 gms of mangoes?  (2) Rs 135  (5) None of thes of numbers is go in place of the 296  (2) 7016  (5) None of thes	respectively, If the how many coconut  (3) 56 se es is Rs 7.50. What  (3) Rs 150 se iven below. Which question mark (?)?
(4) 2500 <b>31.</b> The average years 5 years ago. present?  (1) 37.5  (4) 40.5 <b>32.</b> What will is sets cost Rs 15,500  (1) Rs 26,800  (4) Rs 27,500 <b>33.</b> Which is the content of the conte	(5) None of these age of a brother. What will be the cost of 9 to 2?  (2) Rs 27,800  (5) None of these age of a brother. (2) Rs 27,800  (5) None of these age highest of the form (2) $\frac{3}{5}$ (5) $\frac{2}{3}$	r and sister was 35 eir average age at  (3) 80 se VCD sets if 5 such  (3) Rs 27,900 se ollowing fractions?  (3) 5/8	41. In a garder trees to that of mate total number of trees are there in the (1) 50 (4) 55 (42. Price of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145 (43. A series of number should come 6 36 216 1 (1) 1596 (4) 8776 (4) 8776	n, the ratio of the ngo trees is 5:6 ees is 121, then 1 ne garden?  (2) 45  (5) None of thes 50 gms of mangoes?  (2) Rs 135  (5) None of thes of numbers is go in place of the 296?  (2) 7016  (5) None of thes ge age of Ram, Harmonia (1986) is seen to the seen the 296 of the 2	respectively, If the how many coconut  (3) 56 se es is Rs 7.50. What  (3) Rs 150 se iven below. Which question mark (?)?  (3) 7676 se ari and Gopal is 42
(4) 2500 <b>31.</b> The average years 5 years ago. present?  (1) 37.5  (4) 40.5 <b>32.</b> What will is sets cost Rs 15,500  (1) Rs 26,800  (4) Rs 27,500 <b>33.</b> Which is the content of the conte	(5) None of these age of a brother. What will be the (2) 42 (5) None of these be the cost of 9 very (2) Rs 27,800 (5) None of these highest of the form (2) $\frac{3}{5}$ (5) $\frac{2}{3}$ arence between a property of the second content of the second content of the second content of the form (2) $\frac{3}{5}$ (5) $\frac{2}{3}$ arence between a property of the second content of the second	r and sister was 35 eir average age at  (3) 80 se VCD sets if 5 such  (3) Rs 27,900 se ollowing fractions?	41. In a garder trees to that of mar total number of trees are there in the (1) 50 (4) 55 (42. Price of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145 (43. A series of number should come 6 36 216 1 (1) 1596 (4) 8776 (4)	n, the ratio of the rago trees is 5:6 ees is 121, then be garden?  (2) 45  (5) None of thes of mango of mangoes?  (2) Rs 135  (5) None of thes of numbers is go in place of the 296?  (2) 7016  (5) None of thes ge age of Ram, Has are in the prop	respectively, If the how many coconut  (3) 56 se es is Rs 7.50. What  (3) Rs 150 se iven below. Which question mark (?)?  (3) 7676 se ari and Gopal is 42 ortion of 2:3:4
(4) 2500  31. The averagy years 5 years ago. present?  (1) 37.5  (4) 40.5  32. What will sets cost Rs 15,500  (1) Rs 26,800  (4) Rs 27,500  33. Which is the content of the cost Rs 15,500  (1) Rs 26,800  (2) Rs 27,500  34. If the difference of the cost Rs 15,500	(5) None of these age of a brother. What will be the (2) 42 (5) None of these be the cost of 9 very (2) Rs 27,800 (5) None of these highest of the form (2) $\frac{3}{5}$ (5) $\frac{2}{3}$ arence between a property of the second content of the second content of the second content of the form (2) $\frac{3}{5}$ (5) $\frac{2}{3}$ arence between a property of the second content of the second	r and sister was 35 eir average age at  (3) 80 se VCD sets if 5 such  (3) Rs 27,900 se ollowing fractions?  (3) 5/8	41. In a garder trees to that of mar total number of trees are there in the (1) 50 (4) 55 (42. Price of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145 (4)	n, the ratio of the ngo trees is 5:6 ees is 121, then be garden?  (2) 45  (5) None of thes 50 gms of mangoes?  (2) Rs 135  (5) None of thes of numbers is go in place of the 296?  (2) 7016  (5) None of thes ge age of Ram, Has are in the propes the age of Hari	respectively, If the how many coconut  (3) 56 se es is Rs 7.50. What  (3) Rs 150 se iven below. Which question mark (?)?  (3) 7676 se ari and Gopal is 42 ortion of 2:3:4 in years?
(4) 2500 <b>31.</b> The averagy years 5 years ago. present?  (1) 37.5  (4) 40.5 <b>32.</b> What will sets cost Rs 15,500  (1) Rs 26,800  (4) Rs 27,500 <b>33.</b> Which is the content of the different it is 24, then what is (1) 34	(5) None of these age of a brother. What will be the (2) 42 (5) None of these be the cost of 9 very (2) Rs 27,800 (5) None of these highest of the form (2) $\frac{3}{5}$ (5) $\frac{2}{3}$ Herence between a rest the number? (2) 33	r and sister was 35 eir average age at  (3) 80 se  VCD sets if 5 such  (3) Rs 27,900 se collowing fractions?  (3) $\frac{5}{8}$ number and $\frac{1}{5}$ of  (3) 40	41. In a garder trees to that of mate total number of trees are there in the (1) 50 (4) 55 (4) 55 (4) Frice of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145 (4) Rs 145 (4) A series of number should come 6 36 216 1 (1) 1596 (4) 8776 (4)	n, the ratio of the ngo trees is 5:6 ees is 121, then in garden?  (2) 45  (5) None of thes 50 gms of mangoes?  (2) Rs 135  (5) None of thes of numbers is go in place of the 296?  (2) 7016  (5) None of thes ge age of Ram, Has are in the prop s the age of Hari (2) 42	respectively, If the how many coconut  (3) 56 se es is Rs 7.50. What  (3) Rs 150 se iven below. Which question mark (?)?  (3) 7676 se ari and Gopal is 42 ortion of 2:3:4 in years?  (3) 56
(4) 2500 <b>31.</b> The averagy years 5 years ago. present?  (1) 37.5  (4) 40.5 <b>32.</b> What will sets cost Rs 15,500  (1) Rs 26,800  (4) Rs 27,500 <b>33.</b> Which is the content of the differit is 24, then what is (1) 34  (4) 28	(5) None of these age of a brother. What will be the (2) 42 (5) None of these be the cost of 9 very (2) Rs 27,800 (5) None of these highest of the form (2) $\frac{3}{5}$ (5) $\frac{2}{3}$ where the between a resist the number? (2) 33 (5) None of these	and sister was 35 eir average age at  (3) 80 se  VCD sets if 5 such  (3) Rs 27,900 se  collowing fractions?  (3) $\frac{5}{8}$ number and $\frac{1}{5}$ of  (3) 40 se	41. In a garder trees to that of mar total number of trees are there in the (1) 50 (4) 55 (42. Price of 25 is the price of 5 kgs (1) Rs 120 (4) Rs 145 (43. A series of number should come 6 36 216 1 (1) 1596 (4) 8776 (4)	n, the ratio of the rago trees is 5:6 ees is 121, then be garden?  (2) 45  (5) None of thes of mangoes?  (2) Rs 135  (5) None of thes of numbers is go in place of the 296?  (2) 7016  (5) None of thes ge age of Ram, Has are in the props the age of Hari (2) 42  (5) None of thes	respectively, If the how many coconut  (3) 56 se es is Rs 7.50. What  (3) Rs 150 se iven below. Which question mark (?)?  (3) 7676 se ari and Gopal is 42 ortion of 2:3:4 in years? (3) 56 se
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36. Ram's present age is one-sixth of his father's

given. Find out the one.

- 46. An apple costs Rs 1.75 and an orange costs Rs 1.50. What will be the cost of 3 dozens of apples and 2 dozens of oranges?
  - (1) Rs 99
- (2) Rs 63
- (3) Rs 36

- (4) Rs 100
- (5) None of these
- 47. The sum of 3 consecutive even numbers is 198. Which of the following will be the smallest number among them?
  - (1)42
- (2)38
- (3)32

- (4)72
- (5) None of these

**48.** 
$$\frac{12}{?} = \frac{?}{27}$$

- (1) 162
- (2)164
- (3)18

- (4) 16
- (5) None of these
- 49. 15 persons completed a job in 7 days. How many days will 10 persons take to complete the job?
  - (1) 10
- (2)  $11\frac{1}{2}$
- (3)  $9\frac{1}{2}$

- (4)  $10\frac{1}{2}$
- (5) None of these
- 50. Two-third of half of a number is 18. What is one third of that number?
  - (1) 18
- (2) 16
- (3)19

- (4)17
- (5) None of these

ANSWERS AND EXPLANATIONS					
1.(2)	2. (4)	3.(2)	4.(1)		
5. (3)	6. (4)	7.(1)	8.(1)		
9.(2)	10.(2)	11.(3)	12.(1)		
13.(4)	14. (4)	15.(1)			
16. (5) Ar	ns 30	17.(2)	18.(2)		
19.(1)					
20.(3)					
21. (5) Ai	ns 31				

- 22. (5) Ans 4761
- 23.(3)
- 24. (5) Ans  $37\frac{1}{2}$
- 25. (3) 15, 31, 46, 63, 79, 95

$$15 \times 2 + 1 = 3$$
,  $15 \times 3 + 2 = 47$ .

$$15 \times 4 + 3 = 63$$
,  $15 \times 5 + 4 = 79$ ,

$$15 \times 6 + 5 = 95$$

46 is wrong, it should be 47.

- 26. (5)  $x + x + 1 + x + 2 = 30 \Rightarrow x = 9$ Largest = x + 2 = 11
- $27.(3) 45 (2 \times 4 + 3 \times 1) = 495$
- 28. (3) S.P./kg =  $\frac{15 \times 8 + 25 \times 10 + 3(15 + 25)}{15 + 25}$

$$= Rs 12.25$$

- 29. (2) 40 + 5 + 5 = 50 years
- 30. (4) [100 (30 + 50)]% of  $x = 500 \Rightarrow x = 2500$

$$31.(5)$$
  $35 + 5 = 40$ 

or 
$$\frac{35 \times 2 + 5 + 5}{2} = 40$$

- 32. (3)  $15500 \times \frac{9}{5} = 27900$
- 34. (5)  $x \frac{x}{5} = 24 \Rightarrow x = 30$
- 35. (2) 5x + 6y = 2500 (x = Cost of a table 3x + 2v = 1300v = Cost of a chair) Solving the equations, we get x = 350, y = 125, x + y = 475
- 36. (2) Let father's present age be x years  $\therefore$  Ram's present age =  $\frac{x}{6}$  years

A.T.S. 
$$x - \frac{x}{6} = 35 \Rightarrow x = 42$$
 years

37. (4) S.P. = 
$$\frac{\text{C.P.} \times (100 + \text{P\%})}{100}$$
  
=  $\frac{(950 + 300) \times (100 + 30)}{100}$   
= Rs 1625

- 38. (5)  $2(4x + 3x) = 28 \Rightarrow x = 2$  $\therefore$  Length = 4x = 8m
- 39. (4)

40. (3) 
$$\frac{P}{A} = \frac{2(L+B)}{L \times B} = \frac{2(5x+2x)}{5x \times 2x} = \frac{1}{3}$$
$$\Rightarrow x = \frac{21}{5}$$
$$\therefore L = 5x = 21 \text{ units}$$

$$41. (4) 5x + 6x = 121 \Rightarrow x = 11$$

Coconut trees = 55

42. (3) 
$$7.50 \times 5 \times \frac{1000}{250} = \text{Rs } 150$$

- 43, (5) 6, 36, 216, 1296 : The series is 61,62, 63, 64  $\therefore$  Next term =  $6^{s} = 7776$
- $44.(2) 2x + 3x + 4x = 3 \times 42 \Rightarrow x = 14$ Hari's age = 3x = 42 years
- 45. (2)  $7x 3x = 400 \Rightarrow x = 100$  $\therefore$  No. of boys = 7x = 700
- 46.(1) Cost =  $(3 \times 12) \times 1.75 + 2 \times 12 \times 1.50$ = Rs 99

47. (5) 
$$x + (x + 2) + (x + 4) = 198 \Rightarrow x = 64$$

48. (3) 
$$\mathbf{x} = \sqrt{12 \times 27} = 18$$

49. (4) No. of days = 
$$\frac{15 \times 7}{10} = 10\frac{1}{2}$$

50. (1) 
$$\frac{2}{3} \times \frac{1}{2} \times x = 18 \Rightarrow \frac{x}{3} = 18$$