		place of question mark			n what was the cost			
(?) in the following questions?			price of the DVD Player?					
1. 92.5% of 550 = ?		(1) Rs 8,000	(2) Rs 8,800					
(1) 506.45		(2) 521.65		(5) None of thes				
(3) 518.55		(4) 508.75			mpound interest			
(5) None of these			obtained on an amount of Rs 3,000 at the rate of 8					
2. 12 ⁴ ×1	$2^{13} = ?$		p.c.p.a after 2 year					
(1) 12^7	(2) 12^{39}	(3)1217	(1) Rs 501.50	(2) Rs 499.20	(3) Rs 495			
$(4)12^{-7}$	(4) None of	these	(4) Rs 510 13. What is th	(5) None of thes	be added to 4321			
3. 12.22 +	22.21 + 221.12?		to make it a perfec					
		(2) 255 50	(1) 32	(2) 34	(3) 36			
(1) 250.55		(2) 255.50	(4) 38		(1)(2)(1)(1)			
	(3) 250.05 (4) 255.05 (5) None of these			14. 45% of a number is 255.6. What is 25% of that				
			number?					
(1) 12.5	$6 \times 2.32) = ?$	(2) 14.5	(1) 162	(2) 132	(3) 152			
(3) 10.5		(4) 8.5	(4) 142	(5) None of thes				
	thece	(4) 0.3	15. Find the average of the following Set of Scores:					
(5) None of these 5. $78 \div 5 \div 0.5 = ?$			221, 231,		65, 525			
(1) 15.6	0.3 = 1	(2) 31.2	(1) 399	(2) 428	(3) 407			
(3) 7.8		(4) 20.4	(4) 415	(5) None of thes	se			
(5) None of	these	(4) 20.4	16. If (78)2 is	subtracted from	the square of the			
		of 2,924 kms. in 43	number, the answer so obtained is 6,460. What is the					
			number?					
hours. What is the speed of the bus? (1) 72 kms/hr (2) 60 kms/hr (3) 68 kms/hr			(1) 109	(2) 111	(3) 113			
(1) 72 kms/hr (2) 60 kms/hr (3) 68 kms/hr (4) Cannot be determined			(4) 115	(5) None of thes	se			
(5) None of			17. In an exa	mination it is requ	uired to get 40% of			
		om the square of a	the aggregate marl	ks to pass. A stud	ent gets 261 marks			
		ed is 567. What is the	and is declared t	failed by 4% mar	rks. What are the			
number?	iswer so obtaine	d is 50% what is the	maximum aggrega	te marks a studen	t can get?			
(1) 36	(2) 28	(3) 42	(1) 700	(2) 730	(3) 745			
(4) 48	(5) None of		(4) 765	(5) None of thes	se			
		le interest obtained on	18. Pinku, Rin	nku and Tinku di	vide an amount of			
	•	ite of 6 p.c.p.a. after 3	Rs 4,200 amongst themselves in the ratio of 7:8:6					
years?	to sproo at the re	ite of o picipita arter o	respectively. If an	amount of Rs 200	is added to each of			
	5.80 (2) Rs 1,666	.80 (3) Rs 1,336.80	their shares, what	will be the new	respective ratio of			
	3.80 (5) None of		their shares of am	ount?				
	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 thes				
(4) 42,957	(5) None of				int of Rs 24,000 to			
		uccessive numbers is			of 14 p.c.p.a. for 8 hi get at the end of			
	he smaller numbe		8 years?	mount win Ma Suc	in get at the cha of			
(1) 89	(2) 94	(3) 90	(1) Rs 52,080	(2) Rs 28,000	(3) Rs 50,880			
(4) 92	(5) None of		(4) Rs 26,880	(5) None of thes				
		onics shop charges his			ve even numbers A,			
		st price. If a customer	B. C. D and E is 52					

- (1)2912(2)2688(3)3024
- (5) None of these (4)2800
- 21. The difference between 42% of a number and 28% of the same number is 210. What is 59% of that number?
 - (2)885(1)630
- (3)420

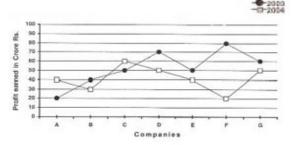
- (4)900
- (5) None of these
- 22. What approximate value should come in place of the question mark (?) in the following question?
 - $4275 : 496 \times (21)^2 = ?$
 - (1)3795
- (2)3800
- (3)3810

- (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 Cellphones 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:
 - (1) 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?
 - I. Number of columns is more than the number of rows by 4.
 - II. Number of trees in each column is an even number
 - 29. What is the area of the right-angled triangle?
 - I. 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?
 - I. 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
- (5) None of these
- 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?
 - (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

- (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
 - (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
C	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

- (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) $\mathbf{x}^2 \mathbf{9}^3 = 567 \Rightarrow \mathbf{x} = 36$
- 8. (1) S.L. = $\frac{5760 \times 6 \times 3}{100}$ = Rs1036.80
- 9. (2) Ans. 43623
- 10. (4) $\mathbf{x}(\mathbf{x} + \mathbf{1}) = 8556 \Rightarrow \mathbf{x} = 92$
- 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)
$$\begin{array}{c|c} 65 \\ 6 \\ \hline 4321 \\ 36 \\ \hline 125 \\ \hline 721 \\ \underline{625} \\ \hline 96 \\ \end{array}$$
 $\begin{array}{c|c} 65^2 < 4321 < 66^2 \\ \\ \text{Reqd. no.} = 66^2 - 4321 = 35 \\ \hline \end{array}$

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)
$$250 = 25000 \left[\left(1 + R \right)^2 - 1 \right] - 25000 \times R \times 2$$

or $R = \frac{x \times 100}{x \times 10} = 10\%$

From either of statement we can find R

28. (4)

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

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 regd.

30. (5) Let son's present age be x ... Father's present age = 5x ATS $5x - 5 = 15 (x - 5) \Rightarrow x = 7$.: Father's present age = 35 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 $40 \Rightarrow x = 75$

36. (4)

37. (2)

38. (3)

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