







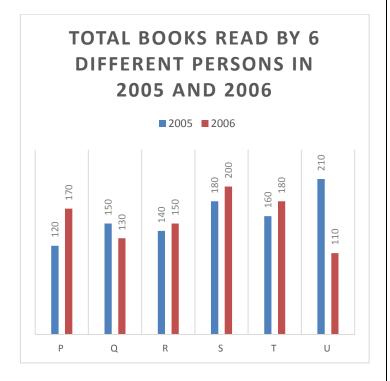
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Directions (Q. 1 - 5): Study the following information carefully and answer the given questions?

The following bar graph shows the total number of books read by 6 different persons in the year 2005 and 2006.



- 1) Find the ratio between the total number of books read by the person P, Q and R together in the year 2005 to that of total number of books read by the person S, T and U together in the year 2006?
- a) 13:17
- b) 41:49
- c) 25:32
- d) 67:73
- e) None of these

- 2) Find the average number of books read by all the given persons in the year 2005?
- a) 155
- b) 165
- c) 170
- d) 160
- e) None of these
- 3) Total number of books read by person Q and S together in the year 2005 is what percentage of total number of books read by person R and T together in the year 2006?
- a) 95 %
- b) 100 %
- c) 80 %
- d) 85 %
- e) None of these
- 4) Find the difference between the total number of books read by the person P and T together in the year 2005 to that of total number of books read by the person Q and S together in the year 2006?
- a) 70
- b) 40
- c) 60
- d) 80
- e) None of these

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5) If the total number of books read by the person A in the year 2005 is 20 % more than the total number of books read by the person Q in the same year and that of books read by the person A in 2006 is same as that total books read by the person S in

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the same year, then find the total number of books read by the person A in the both years together?

- a) 380
- b) 400
- c) 320
- d) 360
- e) None of these

Directions (Q. 6-10): What value should come in place of (?) in the following number series?

- 6) 11, ?, 16, 21, 29, 41
- a) 13
- b) 12
- c) 14
- d) 15
- e) None of these
- 7) 1800, ?, 60, 15, 5, 2.5
- a) 150
- b) 300
- c) 450
- d) 600
- e) None of these
- 8) 150, 152, 147, 157, ?, 166
- a) 125
- b) 138
- c) 140
- d) 150
- e) None of these
- 9) 200, 100, 150, 375, ?, 5906.25
- a) 1312.5
- b) 1115.5
- c) 1227.5
- d) 1445.5
- e) None of these
- 10) 4, 3, 4, 9, 32, ?

- a) 147
- b) 160
- c) 155
- d) 165
- e) None of these

Directions (Q. 11-20): What value should come in place of (?) in the following questions?

11)
$$(789 + 417 + 673 + 228) \div (18 + 22 - ? + 38) = 49$$

- a) 60
- b) 45
- c) 35
- d) 50
- e) None of these
- 12) $[(1/57) \times 1767] + (8/27) \times 2484 = ? \times 3$
- a) 356
- b) 428
- c) 477
- d) 266
- e) None of these
- 13) $4\frac{1}{7} + 5\frac{2}{7} 3\frac{4}{7} + 2\frac{5}{14} = ? 6\frac{1}{2}$
- a) 14 5/7
- b) 12 3/5
- c) 92/3
- d) 10 4/9
- e) None of these
- 14) 18 % of 450 25 % of 180 = ? $\sqrt{324}$ % of 900
- a) 256
- b) 312
- c) 344
- d) 198
- e) None of these

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15) $72 \times 6 \times (125 - 97) + 1254 \div 3 \div 11 - 66^2 = ?$

a) 6152

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- b) 6524
- c) 7196
- d) 7778
- e) None of these
- 16) 6 5/8 % of 9600 + $(1425 \div 25 \div 3) = 127 + ?$
- a) 576
- b) 528
- c) 534
- d) 552
- e) 590
- 17) 15 % of ? 2366 \div 13 1275 \div 3 = 68
- a) 3600
- b) 2700
- c) 4500
- d) 4800
- e) None of these
- 18) $? \div 5 + 125 \times 11 = 4288 + 5572$
- a) 42425
- b) 40560
- c) 39750
- d) 37240
- e) None of these
- 19) 3 3/13 of $4355 27^2 = ? + 561$
- a) 11360
- b) 12780
- c) 14570
- d 15890
- e) None of these
- 20) $21 \times 7 \frac{4}{7}$ of $(? \div 11) = 318$
- a) 45
- b) 34
- c) 22
- d) 16
- e) None of these

- 21) If the length of a rectangle is increased by 25 % while the breadth of the rectangle is decreased by 20 %, then find percentage change in area of the rectangle?
- a) 10 % decreased
- b) 5 % decreased
- c) 10 % increased
- d) 5 % increased
- e) No change
- 22)Two pipes A and B can fill a tank alone in 20 minutes and 25 minutes respectively. If both the pipes are opened simultaneously, then after how much time pipe B should be closed, so that tank is full in 12 minutes?
- a) 8 min
- b) 9 min
- c) 7 min
- d) 10 min
- e) None of these
- 23) A shopkeeper sold an article for Rs. 660 at a loss of 12 %. At what price should it be sold to gain a profit of 8 %?
- a) Rs. 780
- b) Rs. 810
- c) Rs. 830
- d) Rs. 800
- e) None of these
- 24) A student gets 16 % marks and fails by 20 marks. Another student gets 24 % marks so he gets 52 marks more than the passing marks. Find the passing mark?

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- a) 164
- b) 175

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- c) 158
- d) 144
- e) None of these
- 25) The speed of a car is two-third of the speed of a train. Train covers 240 km in 3 hours. How much distance will the car cover in 5hrs?
- a) 400 km
- b) 360 km
- c) 420 km
- d) 340 km
- e) None of these
- 26) Thirty percent of Arun's monthly salary is equal to Rajesh's monthly salary. If Arun's monthly salary is Rs. 45000, then what is Rajesh's annual salary?
- a) Rs. 178000
- b) Rs. 162000
- c) Rs. 156000
- d) Rs. 184000
- e) None of these
- 27) The difference between Simple interest and Compound interest on a certain sum at the rate of 8 % per annum for two years is Rs. 256. Find the simple interest on that sum at the rate of 14% per annum after 8 years?
- a) Rs. 47500
- b) Rs. 41200
- c) Rs. 36400
- d) Rs. 44800
- e) None of these
- 28) A certain number of men complete a piece of work in 40 days. If there were 8 men more, the work could be finished in 10 days less. How many men were originally there?

- a) 24
- b) 32
- c) 48
- d) 66
- e) None of these
- 29) P and Q started a business by investing Rs. 18000 and Rs. 24000 respectively. After 5 months, P invested Rs. 2000 more. And after 4 months, Q withdraw the whole amount. Find the share of Q, if the total profit at the end of the year is Rs. 73590?
- a) Rs. 28950
- b) Rs. 27680
- c) Rs. 35640
- d) Rs. 33290
- e) None of these
- 30) Abirami got married 5 years ago. Today her age is 1(1/5) times of that at the time of her marriage. At present, her daughter's age is one eighth of her age, after 2 years. What will be her daughter's age after 3 years?
- a) 8 years
- b) 7 years
- c) 10 years
- d) 9 years
- e) None of these

Directions (Q. 31 - 35) In the following questions, two equations I and II are given. You have to solve both the equations and give answer as,

- a) If x > y
- b) If $x \ge y$
- c) If x < y
- d) If $x \leq y$

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e) If x = y or the relation cannot be established

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31)

$$1) 2x^2 + 25x + 57 = 0$$

II)
$$3y^2 + 21y + 36 = 0$$

32)

I)
$$x^2 - 9x - 52 = 0$$

II)
$$y^2 - 15y + 54 = 0$$

33)

I)
$$x^2 - 8x - 48 = 0$$

II)
$$y^2 - 10y + 24 = 0$$

34)

I)
$$6x - 5y = -15$$

II)
$$2x - 3y = -1$$

35)

$$1) 5x^2 - 30x + 45 = 0$$

$$II) 4y^2 + 15y - 54 = 0$$

Answers:

1) Answer: B

The total number of books read by the person P, Q and

R together in the year 2005

$$=>120+150+140=410$$

The total number of books read by the person S, T and

U together in the year 2006

$$=>200+180+110=490$$

Required ratio = 410:490 = 41:49

2) Answer: D

The average number of books read by all the given persons in the year 2005

$$=>(120+150+140+180+160+210)/6$$

$$= > 160$$

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3) Answer: B

Total number of books read by person Q and S together in the year 2005

$$= > 150 + 180 = 330$$

Total number of books read by person R and T together in the year 2006

$$= > 150 + 180 = 330$$

Required % = (330/330)*100 = 100 %

4) Answer: E

The total number of books read by the person P and T together in the year 2005

$$=>120+160=280$$

The total number of books read by the person Q and S together in the year 2006

$$= > 130 + 200 = 330$$

Required difference = 330 - 280 = 50

5) Answer: A

The total number of books read by the person A in the both years together

$$=>150*(120/100)+200$$

$$=>180+200=380$$

6) Answer: A

The difference of difference is 1, 2, 3, 4

7) Answer: B

The pattern of the series is $\div 6$, $\div 5$, $\div 4$, $\div 3$, $\div 2$

8) Answer: C

The pattern of the series is +2, -5, +10, -17, +26.

The difference is 7, 15, 27, 43

The difference of difference is 8, 12, 16

9) Answer: A

The pattern of the series is $\times 0.5$, $\times 1.5$, $\times 2.5$, $\times 3.5$, $\times 4.5$

10) Answer: C

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The pattern of the series is $\times 1$ -1, $\times 2$ -2, $\times 3$ -3, $\times 4$ -4, $\times 5$ -

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11) Answer: C

$$(789 + 417 + 673 + 228) \div (18 + 22 - x + 38) = 49$$

$$2107 \div (78 - x) = 49$$

$$2107/49 = 78 - x$$

$$43 = 78 - x$$

$$x = 78 - 43$$

$$x = 35$$

12) Answer: D

$$3 \times ? = (1767/57) + [(8 \times 2484) / 27]$$

$$62 + 736 = 3x$$

$$3x = 798$$

$$X = 266$$

13) Answer: A

$$(4+5-3+2+6)(1/7+2/7-4/7+5/14+1/2) = x$$

$$X = 14 [(2 + 4 - 8 + 5 + 7)/14]$$

$$X = 14(10/14) = 14(5/7)$$

14) Answer: C

$$(18/100)*450 - (25/100)*180 = x - (18/100)*900$$

$$81 - 45 = x - 162$$

$$36 + 162 = x$$

$$X = 198$$

15) Answer: D

$$(72*6*28) + 1254 \div 3 \div 11 - 66^2 = x$$

$$12096 + 38 - 4356 = x$$

$$x = 7778$$

16) Answer: B

$$(53/800)*9600 + ((1425/25)/3) = 127 + x$$

$$636 + 19 - 127 = x$$

$$X = 528$$

17) Answer: C

$$(15/100)*x - (2366/13) - (1275/3) = 68$$

$$(3x/20) = 68 + 182 + 425$$

$$(3x/20) = 675$$

$$X = 675*(20/3) = 4500$$

18) Answer: C

$$(x/5) + 1375 = 4288 + 5572$$

$$(x/5) = 9860 - 1375$$

$$(x/5) = 8485$$

$$x = 42425$$

19) Answer: B

$$(42/13)*4355 - 729 = x + 561$$

$$14070 - 729 - 561 = x$$

$$X = 12780$$

20) Answer: C

$$21*(53/7)*(x/11) = 318$$

$$X = (318*7*11)/(21*53)$$

$$X = 22$$

21) Answer: E

Let the length and breadth of the rectangle is 10 cm

and 10cm,

Previous area = 10*10 = 100

New length = 10*125/100 = 12.5

New breadth = 10*80/100 = 8

New area = 12.5*8 = 100

No change in the area of the rectangle.

22) Answer: D

$$(12/20) + (x/25) = 1$$

$$(x/25) = 1 - (3/5)$$

$$(x/25) = 2/5$$

$$X = (2/5)*25 = 10 \text{ min}$$

After 10 min, B should be closed.

23) Answer: B

$$(88/100)*Cost price = 660$$

Cost price =
$$660*(100/88)$$
 = Rs. 750

To get a profit of 8 %,

Selling price =
$$750*(108/100)$$
 = Rs. 810

24) Answer: A

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Let the maximum mark be x,

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Here the passing mark is equal. So,

$$(16/100)*x + 20 = (24/100)*x - 52$$

$$(24/100)*x - (16/100)*x = 72$$

$$(8/100)*x = 72$$

$$X = 7200/8 = 900$$

Passing mark =
$$(16/100)*900 + 20 = 144 + 20 = 164$$

25) Answer: A

Speed of train =
$$360/3 = 120 \text{ km/hr}$$

Speed of car =
$$120 \times (2/3) = 80 \text{ km/hr}$$

Required distance =
$$80 \times 5 = 400 \text{ km}$$

26) Answer: B

Arun's monthly salary = Rs. 45000

(30/100)*Arun's monthly salary = Rajesh monthly

salary

Rajesh monthly salary = (30/100)*45000 = Rs. 13500

Rajesh's annual salary

$$=>13500*12$$

$$=> Rs. 162000$$

27) Answer: D

The difference between CI and SI for two years is,

Diff =
$$P*(r/100)^2$$

$$256 = P*(8/100)^2$$

$$256*(25/2)^2 = P$$

$$P = 256*(625/4) = 40000$$

$$S.I = (40000*14*8)/100$$

$$S. I = Rs. 44800$$

28) Answer: A

Let the no of men be x,

Work = men*days

Here work is equal. So,

$$40*x = (x + 8)*30$$

$$4x = 3x + 24$$

$$X = 24$$

29) Answer: C

The share of P and Q,

$$=>[18000*5+20000*7]:[24000*9]$$

$$=>115:108$$

$$223$$
's = 73590

$$1's = 330$$

The share of
$$Q = 108$$
's = Rs. 35640

30) Answer: B

Today her age = (6/5)* Age, at the time of her

marriage

Today her age: Age, at the time of her marriage = 6:

5

5 years ago, she got married.

$$1'_{S} = 5$$

Present age of Abirami = 30 years

Daughter's present age = (32/8) = 4 years

Daughter's age after 3 years = 7 years

31) Answer: E

I)
$$2x^2 + 25x + 57 = 0$$

$$2x^2 + 6x + 19x + 57 = 0$$

$$2x(x+3) + 19(x+3) = 0$$

$$(2x + 19)(x + 3) = 0$$

$$X = -19/2$$
, $-3 = -9.5$, -3

II)
$$3y^2 + 21y + 36 = 0$$

$$3y^2 + 12y + 9y + 36 = 0$$

$$3y(y+4) + 9(y+4) = 0$$

$$(3y+9)(y+4)=0$$

$$Y = -3, -4$$

Can't be determined

32) Answer: C

$$I)x^2 - 9x - 52 = 0$$

$$(x + 13)(x - 4) = 0$$

$$X = -13.4$$

$$II) y^2 - 15y + 54 = 0$$

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$$(y-9)(y-6)=0$$

$$Y = 9, 6$$

33) Answer: B

I)
$$x^2 - 8x - 48 = 0$$

$$(x-12)(x+4)=0$$

$$x = 12, -4$$

II)
$$y^2 + 10y + 24 = 0$$

$$(y+6)(y+4)=0$$

$$y = -6, -4$$

$$x \ge y$$

34) Answer: C

$$6x - 5y = -15 - - \rightarrow (1)$$

$$2x - 3y = -1 - - - \rightarrow (2)$$

By solving the equation (1) and (2), we get,

$$x = -5, y = -3$$

35) Answer: A

$$I) 5x^2 - 30x + 45 = 0$$

$$5x^2 - 15x - 15x + 45 = 0$$

$$5x(x-3) - 15(x-3) = 0$$

$$(5x-15)(x-3)=0$$

$$x = 15/5, 3 = 3, 3$$

II)
$$4y^2 + 15y - 54 = 0$$

$$4y^2 + 24y - 9y - 54 = 0$$

$$4y(y+6) - 9(y+6) = 0$$

$$(4y-9)(y+6)=0$$

$$y = 9/4$$
, $-6 = 2.25$, -6



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