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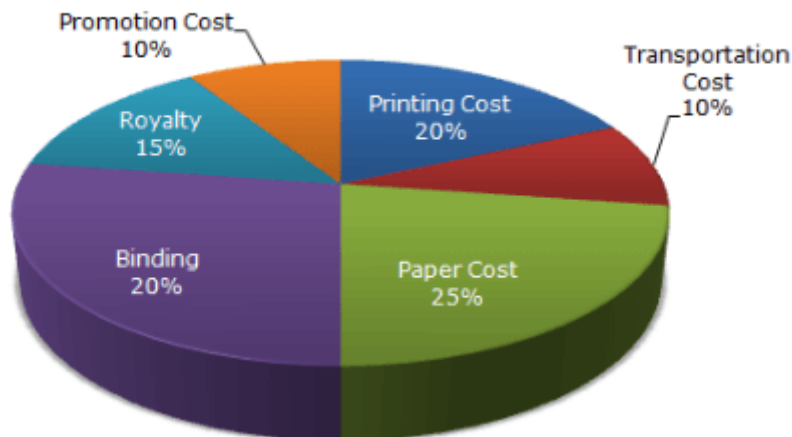
## Memory Based Paper 2019

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**Directions (1-5):** The following pie chart shows the percentage % distribution of expenditure incurred in publishing a book. Study the pie chart and answer the questions based on it.

**Various Expenditures (in percentage) Incurred in Publishing a Book**



**1) If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be amount of royalty to be paid for these books?**

- A. Rs. 21,500
- B. Rs. 22600
- C. Rs. 22,950
- D. Rs. 32,900



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E. Rs. 35000

Explanation:

Let the amount of Royalty to be paid for these books be Rs.  $r$ .

Then,  $20 : 15 = 30600 : r \Rightarrow r = \text{Rs. } (30600 \times 15) / 20$

= Rs. 22,950.

**2) Royalty on the book is less than the printing cost by:**

A. 5%

B.  $33 \frac{1}{5}\%$

C. 20%

D. 30%

E. 25%

Ans- E

**3) If 5500 copies are published and the transportation cost on them amounts to Rs. 82500, then what should be the selling price of the book so that the publisher can earn a profit of 25%?**

A. Rs. 200

B. Rs. 191.50

C. Rs. 187.50

D. Rs. 180

E. Rs. 190

**Explanation:**

For the publisher to earn a profit of 25%, S.P. = 125% of C.P.

Also Transportation Cost = 10% of C.P.

Let the S.P. of 5500 books be Rs.  $x$ .

Then,  $10 : 125 = 82500 : x \Rightarrow x = \text{Rs. } (125 \times 82500) / 10 = \text{Rs. } 1031250$ .

Therefore S.P. of one book = Rs.  $1031250 / 5500 = \text{Rs. } 187.50$ .



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4) The price of the book is marked 20% above the C.P. If the marked price of the book is Rs. 180, then what is the cost of the paper used in a single copy of the book?

- A. Rs. 40
- B. Rs. 37.50
- C. Rs. 42.75
- D. Rs. 44.25
- E. Rs 50

**Explanation:**

Clearly, marked price of the book = 120% of C.P.

Also, cost of paper = 25% of C.P

Let the cost of paper for a single book be Rs. n.

Then,  $120 : 25 = 180 : n \Rightarrow n = \text{Rs. } (25 \times 180) / 120$

= Rs. 37.50 .

5) What is the central angle of the sector corresponding to the expenditure incurred on Royalty?

- A. 20
- B. 45
- C. 54
- D. 60
- E. 22

Ans- C

6) Not Remember.....

**Question (7-12)**

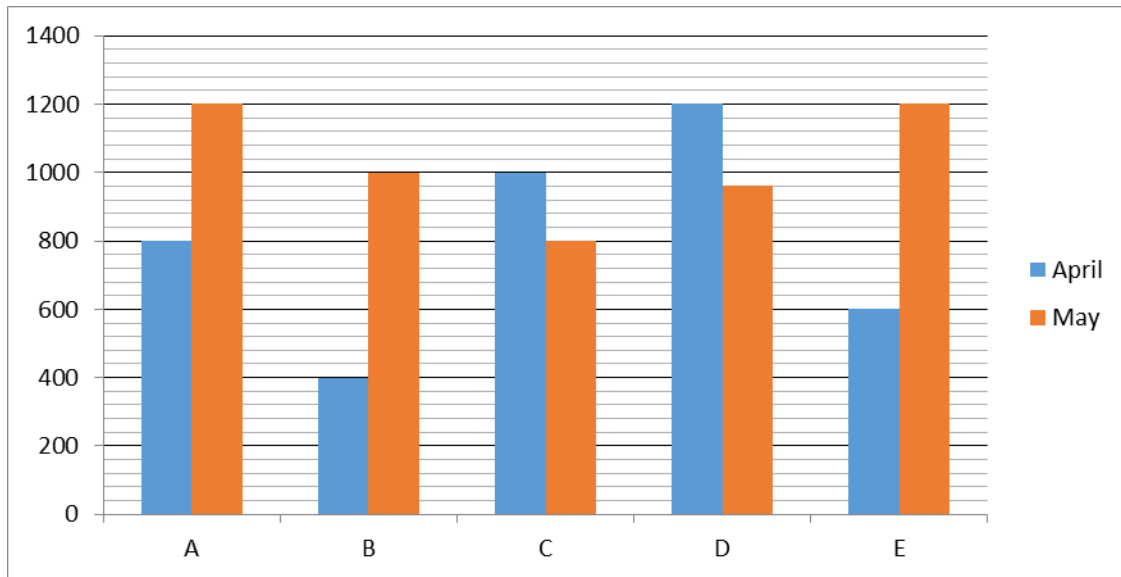
Bar chart shows the units of laptops sold in two different months (i.e. April and May) by 5 different companies (A, B, C, D & E).

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**Laptops sold by company-B & C together in May are what percent more than laptops sold by company-D in April?**

- (a) 70%
- (b) 65%
- (c) 30%
- (d) 50%
- (e) 67%

**Ans.(D)**

Sol. Laptops sold by company-B & C together in May = 1000 + 800

= 1800

Laptops sold by company-D in April = 1200

$$\text{Required \%} = \frac{1800 - 1200}{1200} \times 100$$

$$= \frac{600}{1200} \times 100$$

= 50%

**Laptops sold by company-A & B together in April are how much more or less than average number of laptops sold by company-C & E in May?**

- (a) 200



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(b) 780

(c) 800

(d) 1200

(e) 650

Ans.(A)

Sol. Laptops sold by company-A & B together in April =  $800 + 400$

= 1200

Average number of laptops sold by company-C & E in May =  $\left(\frac{800 + 1200}{2}\right)$

= 1000

Required difference =  $1200 - 1000$

= 200

**Find ratio of laptops sold by company-B & E together in April to laptops sold by company-C & D together in May.**

(a) 13 : 18

(b) 17:18

(c) 25:44

(d) 11 : 23

(e) 12:13

Ans.(C)

Sol. Laptops sold by company-B & E together in April =  $400 + 600$

= 1000

Laptops sold by company-C & D together in May =  $800 + 960$

= 1760

Required ratio =  $\frac{1000}{1760}$

= 25 : 44



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**Find average number of laptops sold by company-A, D & E in May is what percent of laptops sold by company-C in April?**

- (a) 123%
- (b) 145%
- (c) 84%
- (d) 112%
- (e) 148%

**Ans- D**

**Find total laptops sold by all 5 companies in May are what percent more or less than total laptops sold by all 5 companies in April?**

- (a) 28%
- (b) 29%
- (c) 40%
- (d) 26%
- (e) 33%

Total laptops sold by all 5 companies in May =  $1200 + 1000 + 800 + 960 + 1200$   
= 5160

Total laptops sold by all 5 companies in April =  $800 + 400 + 1000 + 1200 + 600$   
= 4000

Required % =  $\frac{5160 - 4000}{4000} \times 100$

=  $\frac{1160}{40}$  %

= 29%

**Find ratio of laptops sold by company-A & E together in April to laptops sold by company-B & D together in May.**

- (a) 3 : 4
- (b) 7 : 9
- (c) 4 : 7
- (d) 5 : 7



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(e) 3 : 7

**Ans- D**

**Question (13-17)**

513, 257, 129, 65, 31, 179

3, 5, 14, 55, 274, 1041

2.5, 3, 5, 15, 60, 300, 1800

189, 701, 1044, 1263, 1385, 1449, 1476

12, 18, 30, 48, 72, 126, 204

**Question (18-22)**

?% of 8559.93 - (47.87)<sup>2</sup> + 5345.87 ÷ 5.93 = 553.87 × 9.93

**Ans- 81**

$\frac{351.83 + ?}{15.97} \times 16.99 + 148.87 = (25.87)^2$

**Ans- 144**

1099.98 ÷ 49.98 + 46.09<sup>2</sup> - 29.89<sup>3</sup> = ? + 63.94 +  $\sqrt{2499.87}$

69.9% 445.12 ÷ 14.04 = 436.1 ÷ ?

**Ans- 20**

59.8% of 1539.5 + 37.5% of 95.78 + 0.99 = (?)<sup>2</sup>

**Ans- 31**

**Question 23.** A shopkeeper sold an article at a 10% discount at mark price. He found that he earns a profit of  $16\frac{2}{3}\%$  but instead of calculating profit on cost price he calculates it on the sum of cost price and selling price. If cost price of article is 1350 then find out the mark price.

A) 2100

B) 2500

C) 1800

D) 1500



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E) None of these

**Ans- 2100**

**Question 24.** The surface area of the sphere is  $616 \text{ cm}^2$ . Find the perimeter of the square if the diameter of the sphere is two times of the side of the square.

A) 25 cm

B) 38 cm

C) 26 cm

D) 28 cm

E) 69 cm

**Ans- D**

Ans (b)

Sol. Let  $r$  be the radius of the sphere.

Given,  $4\pi r^2 = 616$

$$r = 7 \text{ cm}$$

So, side of the square = 7 cm

Now, perimeter of the square =  $4 \times 7 = 28 \text{ cm}$

**Question 25:** Three persons A, B, and C invest in a business in the ratio of 5 : 6 : 4. If A and C invested for one year, then B should invest for how many months if he wants to receive 25% of the total profit at the end of one year?

A) 4 months

B) 8 months

C) 5 months

D) 6 months

E) None of these

**Explanation:**

Let B invested for  $x$  months

The ratio of their share =  $5 \times 12 : 6 \times x + 4 \times 12 = 60 : 6x : 48$

B's share is 25% so,

$$6x \div (60 + 6x + 48) = 25\%$$

$$24x = 108 + 6x$$

$$x = 6 \text{ months}$$





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**Question 26:** H and V can together finish a work in 30 days. They worked together for 20 days and then V left. After another 20 days, H finished the remaining work. In how many days H alone can finish the work?

- A.45
- B.60
- C.35
- D.50
- E.65

$H + V \text{ 20 days work} = \frac{1}{30} * 20 = \frac{2}{3}$   
 Remaining work =  $\frac{1}{3}$   
 $\frac{1}{3}$  work in 20 days so whole work in 60 days.

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