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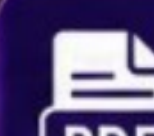
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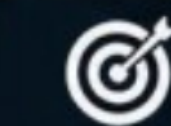
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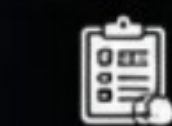
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1. एक कंप्यूटर की कीमत ₹22,200 है। 25% की कमी के बाद कंप्यूटर की कीमत कितनी होगी?

The price of a computer is ₹22,200. What will be the price of the computer after a reduction of 25%?

1. ₹16,550
2. ₹16,440
3. ₹16,750
4. ₹16,650

$$22200 \times \frac{75}{100} = 16650$$

2. एक खुदरा विक्रेता ₹22,400 में 12 जोड़ी जूते खरीदता है। उसका उपरि खर्च ₹1,600 है। यदि वह इन 12 जोड़ी जूतों को बिक्री से ₹28,500 अर्जित करता है, तो उसका लाभ प्रतिशत ज्ञात कीजिए।

A retailer buys 12 pairs of shoes for ₹22,400. His overhead expenses are ₹1,600. If he earns ₹28,500 from the sale of these 12 pairs of shoes, find his profit percentage.

1. 17.5%
2. 20%
3. 19.25%
4. 18.75%

$$CP = 22400 + 1600 = 24000$$

$$SP = 28500$$

$$\frac{15}{45} \times 100 = \frac{75}{4} \% = 18.75\%$$

3. यदि अंकित मूल्य पर 26% की छूट देने के बाद पांच ब्लूटूथ उपकरणों का विक्रय मूल्य ₹14,430 है, तो एक उपकरण का अंकित मूल्य ज्ञात कीजिए।

If the selling price of five Bluetooth devices after a discount of 26% on the marked price is ₹14,430, then find the marked price of one device.

1. ₹3,365
2. ₹3,000
3. ₹2,886
4. ₹3,900

$$MP \times \frac{74}{100} = 14430$$

$$MP = 19500$$

$$\frac{19500}{5} = 3900$$

4. एक कार 8 km की चार क्रमिक दूरियां क्रमशः 12 km/hr, 18 km/hr, 24 km/hr और 36 km/hr की चाल से तय करती है। पूरी दूरी के लिए इसकी औसत चाल (km/hr में) कितनी है?

A car covers four consecutive distances of 8 km each at speeds of 12 km/hr, 18 km/hr, 24 km/hr, and 36 km/hr respectively. What is its average speed (in km/hr) for the entire distance?

1. 20
2. 18
3. 19.2
4. 22.5

$$A = 12 - 6$$

$$B = 18 - 4$$

$$C = 24 - 3$$

$$D = 36 - 2$$

$$\boxed{72}$$

$$\begin{aligned} \text{Avg Speed} &= \frac{24}{\cancel{72} \times 4} \\ &= \frac{96}{5} = \boxed{19.2} \end{aligned}$$

5. 4 पुरुष और 3 महिलाएँ एक कार्य को 6 दिनों में पूरा करते हैं, तथा 5 पुरुष और 7 महिलाएँ उसी कार्य को 4 दिनों में पूरा कर सकते हैं। 8 पुरुष और 6 महिलाएँ उसी कार्य को पूरा करने में कितना समय लेंगे?

1. 9 दिन
2. 6 दिन
3. 3 दिन
4. 8 दिन

4 men and 3 women complete a piece of work in 6 days, and 5 men and 7 women can complete the same work in 4 days. How much time will 8 men and 6 women take to complete the same work?

1. 9 days
2. 6 days
3. 3 days
4. 8 days

$$(4m + 3w) \times 6 = (5m + 7w) \times 4$$

$$12m + 9w = 10m + 14w$$

$$2m = 5w$$

$$\frac{m}{w} = \frac{5}{2}$$

$$(4m + 3w) \times 6 = (8m + 6w) \times D_2$$

$$26 \times 6^3 = 52 \times D_2$$

$$D_2 = 3$$

6 मूल्यांकन कीजिए: $32 \div 8 \times 4 - 3 \times 4$

Evaluate: $32 \div 8 \times 4 - 3 \times 4$

1. 7

2. 3

3. 4

4. 6

7. यदि $3x^2$ और $4xy$ का तृतीयानुपाती 48 है, तो y का धनात्मक मान कितना है?

If the third proportional of $3x^2$ and $4xy$ is 48, then what is the positive value of y ?

1. 9
2. 2
3. 3
4. 6

$$a \& b = \frac{b^2}{a}$$

$$\frac{4xy \times 4xy}{3x^2} = 48$$

$$y^2 = 9$$

$$y = \sqrt{9} = 3$$

8. ईंधन की कीमत क्रमागत तीन महीनों में 40%, 50% और 15% कम की गई है, लेकिन चौथे महीने में 40% वृद्धि की गई है। चौथे महीने में ईंधन की कीमत में उसकी मूल कीमत की तुलना में कितने प्रतिशत की वृद्धि/कमी हुई है?

1. 69.09% की कमी
2. 65.91% की वृद्धि
3. 65.47% की वृद्धि
4. 64.3% की कमी

The price of fuel has been reduced by 40%, 50%, and 15% in three consecutive months, but increased by 40% in the fourth month. What is the percentage increase/decrease in the price of fuel in the fourth month compared to its original price?

1. Decrease of 69.09%
2. Increase of 65.91%
3. Increase of 65.47%
4. Decrease of 64.3%

$$CP = 100$$

$$SP = 100 \times \frac{60}{100} \times \frac{50}{100} \times \frac{85}{100} \times \frac{140}{100}$$

$$= 35.7$$

$$\text{कमी \%} = 64.3\%$$



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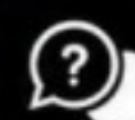
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9. निम्नलिखित का मान ज्ञात कीजिए:

$$\left[(63 \div 9) \times \left\{ \frac{14}{7} + \frac{19}{1} \times (7 - 6) \right\} \right]$$

Find the value of the following:

$$\left[(63 \div 9) \times \left\{ \frac{14}{7} + \frac{19}{1} \times (7 - 6) \right\} \right]$$

1. 148
2. 147
3. 150
4. 159

$$7 \times 21 = 147$$

10. वार्षिक साधारण ब्याज की समान दर पर अमित ₹5,400 की राशि का निवेश करता है और गोपाल ₹9,400 की राशि का निवेश करता है। यदि 3 वर्ष के अंत में, गोपाल को अमित से ₹840 अधिक ब्याज प्राप्त होता है, तो वार्षिक ब्याज की दर (प्रतिशत में) ज्ञात कीजिए।

Amit invests an amount of ₹5,400 and Gopal invests an amount of ₹9,400 at the same rate of annual simple interest. If at the end of 3 years, Gopal receives ₹840 more interest than Amit, then find the annual rate of interest (in percentage).

$$\frac{9400 \times 3 \times R}{100} - \frac{5400 \times 3 \times R}{100} = 840$$

$$3R(94 - 54) = 840$$

$$3R \times 40 = 840$$

$$R = 7\%$$

11. केतन ने 151 कुर्सियाँ बेचीं और उसे 51 कुर्सियों के विक्रय मूल्य के बराबर लाभ हुआ। उसका लाभ प्रतिशत कितना है?

Ketan sold 151 chairs and made a profit equal to the selling price of 51 chairs. What is his profit percentage?

1. 56%

2. 61%

3. 51%

4. 46%

$$SP = 151$$

$$P = 51$$

$$CP = 100$$

$$51\%$$

12. चेतन शहर A से शहर B तक यात्रा करता है। यदि चेतन अपनी कार को अपनी सामान्य चाल की $\frac{3}{4}$ चाल पर चलाता है, तो वह शहर B तक 33 मिनट देरी से पहुंचता है। यदि चेतन अपनी कार सामान्य चाल से चलाता, तो शहर A से शहर B तक यात्रा करने में उसे कितना समय (मिनट में) लगता?

Chetan travels from city A to city B. If Chetan drives his car at $\frac{3}{4}$ of his usual speed, he reaches city B 33 minutes late. If Chetan had driven his car at usual speed, how much time (in minutes) would it take him to travel from city A to city B?

1. 97
2. 93
3. 100
4. 99

A B

Speed = 4 : 3

Time = 3 : 4

① → 33 min

$33 \times 3 = 99 \text{ min}$

14. x तथा $x + 100$ का तृतीयानुपाती 405 है, x का मान ज्ञात कीजिए (जहाँ $x > 100$) है।

The third proportional of x and $x + 100$ is 405, find the value of x (where $x > 100$).

~~1. 225~~

~~2. 125~~

~~3. 115~~

~~4. 180~~

$$\frac{(x+100)^2}{x} = 405$$

$$x^2 + 1000 + 200x = 405x$$

$$x^2 - 205x + 1000 = 0$$

15. A और B की चाल का अनुपात 3 : 5 है। यदि B को एक निश्चित दूरी तय करने में 18 मिनट लगते हैं, तो A को समान दूरी तय करने में कितना समय लगेगा?

The ratio of the speed of A and B is 3 : 5. If B takes 18 minutes to cover a certain distance, how much time will A take to cover the same distance?

1. 30
2. 33
3. 25
4. 20

$$\begin{array}{l}
 A : B \\
 \text{Speed} = 3 : 5 \\
 \text{Time} = 5 : \textcircled{3} \xrightarrow{\times 6} 18 \\
 \quad \quad \quad \downarrow \times 6 \\
 \quad \quad \quad \textcircled{30}
 \end{array}$$

16. निम्नलिखित का मान ज्ञात कीजिए:

Find the value of the following:

$$\left[(42 \div 7) \times \left\{ \frac{42}{3} + \frac{19}{4} \times (8 - 4) \right\} \right]$$

1. 209

2. 180

3. 202

4. 198

$$6 \times \left\{ 14 + \frac{19}{4} \times 4 \right\}$$

$$6 \times 33 = 198$$

17. एक कक्षा के 39 विद्यार्थियों की औसत आयु 39 वर्ष है। यदि शिक्षक की आयु भी सम्मिलित कर ली जाए, तो संपूर्ण समूह की औसत आयु 40 वर्ष हो जाती है। शिक्षक की आयु (वर्ष में) ज्ञात कीजिए।

The average age of 39 students in a class is 39 years. If the age of the teacher is also included, the average age of the entire group becomes 40 years. Find the age of the teacher (in years).

- 1. 79
- 2. 81
- 3. 83
- 4. 77

$$39 \times 39 = 1521$$

$$40 \times 40 = 1600$$

$$79$$

18. यदि एक अर्धगोले की त्रिज्या $13\sqrt{3}$ cm है, तो इसका वक्र पृष्ठीय क्षेत्रफल ज्ञात कीजिए।

If the radius of a hemisphere is $13\sqrt{3}$ cm, then find its curved surface area.

~~1. $1044\pi \text{ cm}^2$~~

~~2. $1024\pi \text{ cm}^2$~~

~~3. $1034\pi \text{ cm}^2$~~

4. $1014\pi \text{ cm}^2$

$$\begin{aligned} \text{C.S.A} &= 2\pi r^2 \\ &= 2\pi (13\sqrt{3})^2 \\ &= 2 \times \pi \times 169 \times 3 \\ &= 1014\pi \end{aligned}$$

20. X तीन अंकों की एक बड़ी से बड़ी संख्या है जो 12, 20 और 25 से पूर्णतः विभाज्य है। X के अंकों का योग ज्ञात कीजिए।

X is the largest three-digit number which is exactly divisible by 12, 20, and 25. Find the sum of the digits of X.

- 1. 9
- 2. 8
- 3. 5
- 4. 7

$$\text{LCM}(12, 20, 25) = 300$$

$$300 \times 3 = 900$$

$$9 + 0 + 0 = 9$$

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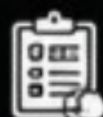
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