1. A 30% loss on cost price is what percent loss on selling price?

1. 30%
2. 20%
3. 15%
4. None of these

Answer: Option D
Let CP = 100 ; SP=70
Loss= 30/70 × 100 = 42.85%

2. A, B and C hire a taxi for Rs. 2400 for one day. A, B and C used the car for 6 hours, 8 hours and 10 hours respectively. How much did C pay?

1. Rs. 800
2. Rs. 1000
3. Rs. 600
4. Rs. 1200

Answer: Option B
Let total fair be = 2400 ;
Therefore c share =10/24 × 2400 = 1000

3. The ratio of investments of A and B is 8 : 7 and the ratio of their yearend profits is 20 : 21. If B invested for 12 months, then find the period of investment of A:

1. 6 months
2. 8 months
3. 10 months
4. 12 months

Answer: Option C
Let A invest for x months ; A = 8x months,
B = 7 × 12 = 84 months
8x/84 = 20/21
⇒ x = 10

4. What percent is 2 minutes 24 seconds of an hour?

1. 6%
2. 2%
3. 4%
4. 8%

Answer: Option C
%=144/60×60 = 4%

5. Evaluate: 3 cos 80° cosec 10° + 2 cos 59° cosec 31°

1. 1
2. 3
3. 2
4. 5

Answer: Option D

3 cos 80°. Cosec 10° + 2 cos 59° . cosec 31°

= 3 cos (90° - 10°). Cosec 10° + 2 cos (90° - 31°).Cosec 31°

=3sin10°.Cosec10° +2sin31°.cosec31°

=3+2=5

6. The total cost of 8 buckets and 5 mugs is Rs. 92 and the total cost of 5 buckets and 8 mugs is Rs. 77. Find the cost of 2 mugs and 3 buckets.

1. Rs. 35
2. Rs. 70
3. Rs. 30
4. Rs. 38

Answer: Option A

CP of 1 bucket = Rs. X

CP of 1 mug = Rs. Y

∴ 8x + 5y = 92..... (i)

5x + 8y = 77.....(ii)

By equation (i) × 5 – equation (ii) × 8.

40x + 25y – 40x – 64y

= 460 – 616 ⇒ − 39y = - 156⇒ y = 4

From equation (i),

8x + 20 = 92 ⇒8x = 92 – 20 = 72 ⇒ x = 9

∴ CP of 2 mugs and 3 buckets

= 2 × 4 + 3 × 9 = 8 + 27 = Rs. 35

7. If 4x/3 + 2P = 12 for what value of P, x = 6?

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

Answer: Option C

When x = 6, (4 * 6)/3 + 2P = 12

⇒ 8 + 2P = 12

⇒ 2P = 12 – 8 = 4

⇒ P = 2

8. What number must be added to the expression $16a^2 – 12a$ to make it a perfect square?

1. 9/4
2. 11/2
3. 13/2
4. 16

Answer: Option A

$a^2 - 2ab + b^2 = (a-b)^2$

$\therefore 16a^2 – 12a = (4a)^2 - 2*4a*3/2$

Hence, on adding $(3/2)^2 = 9/4$, expression will be a perfect square.

9. The straight line 2x + 3y = 12 passes through:

1. 1st, 2nd and 3rd quadrant
2. 1st, 2nd and 4th quadrant
3. 2nd, 3rd and 4th quadrant
4. 1st, 3rd and 4th quadrant

Answer: Option B

The usual way to solve these type of questions is to put x = 0 once and find y coordinate. This would represent the point where the line cuts the Y axis.

Similarly put y = 0 once and find x coordinate. This would represent the point where the line cuts the X axis. Then join these points and you will get the graph of the line.

So when we put x = 0 we get y = 4.

When we put y = 0 we get x = 6.

So when we join these points we see that we get a line in 1st quadrant, which when extended both sides would go to 4th and 2nd quadrants. So option B.

10. In ΔABC, ∠A + ∠B = 65°, ∠B + ∠C = 140°, then find ∠B.

1. 40°
2. 25°
3. 35°
4. 20°

Answer: Option B

∠A + ∠B = 65°

$\therefore$ ∠C = 180° - 65° = 115°

∠B + ∠C = 140°

$\therefore$ ∠B = 140° - 115° = 25°

1. Find the odd man out. 1, 3, 9, 12, 19, 29

A. 12 B. 9

C. 1 D. 3

Here is the answer and explanation

Answer : Option A

Explanation :

12 is an even number. All other given numbers are odd

2. Find the odd man out. 1, 8, 27, 64, 125, 196, 216, 343

A. 64 B. 196

C. 216 D. 1

|

Here is the answer and explanation

Answer : Option B

Explanation :

The pattern is 1^3, 2^3, 3^3, 4^3, 5^3, 6^3, 7^3.

196 is not a perfect cube

3. Find the odd man out. 15, 25, 30, 51, 85, 90, 115

A. 15 B. 25

C. 51 D. 90

Hide Answer
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Here is the answer and explanation

Answer : Option C

Explanation :

All except 51 are multiples of 5

7. Find the odd man out. 362, 482, 551, 263, 344, 284

A. 362 B. 482

C. 551 D. 344

Hide Answer
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Notebook
Here is the answer and explanation

Answer : Option D

Explanation :

In all numbers except 344, the product of first and third digits is the middle digit.

9. Find the odd man out. 1, 5, 11, 17, 23, 29

A. 29 B. 17

C. 11 D. 1

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Here is the answer and explanation

Answer : Option D

Explanation :

All given numbers except 1 are prime numbers.

One is not a prime number because it does not have two factors. It is divisible by only 1

12. Find the odd man out. 1, 4, 9, 17, 25, 36, 49

A. 1 B. 9

C. 17 D. 49

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Notebook
Here is the answer and explanation

Answer : Option C

Explanation :

The patter is 1^2, 2^2, 3^2, 4^2, 5^2, 6^2, 7^2

But, instead of 4^2, 17 is given

14. Find the odd man out. 18, 16, 12, 24, 11, 34, 46

A. 16 B. 46

C. 16 D. 11

Hide Answer | | Discuss Notebook

Here is the answer and explanation

Answer : Option D

Explanation :

11 is the only odd number in the given series

15. Find the odd man out. 1, 27, 216, 512, 1024, 1331

A. 1024 B. 512

C. 27 D. 1

Hide Answer | | Discuss Notebook

Here is the answer and explanation

Answer : Option A

Explanation :

All given numbers except 1024 are perfect cubes

1. A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?
   A. 3.6
   B. 7.2
   C. 8.4
   D. 10

Answer: Option B

Explanation:

$$\text{Speed} = \left(\frac{600}{5 \times 60}\right) \text{m/sec.}$$
$$= 2 \text{ m/sec.}$$

Converting m/sec to km/hr (see important formulas section)

$$= \left(2 \times \frac{18}{5}\right) \text{km/hr}$$
$$= 7.2 \text{ km/hr.}$$

3. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is:
A. 50 km
B. 56 km
C. 70 km
D. 80 km
Answer: Option A

Explanation:

Let the actual distance travelled be x km.

$$\text{Then, } \frac{x}{10} = \frac{x + 20}{14}$$
$$\Rightarrow 14x = 10x + 200$$

$$\Rightarrow 4x = 200$$

$$\Rightarrow x = 50 \text{ km.}$$