mcq-analytical-reasoning-25-mar-2023

Total points **2/15** ?

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I swear on my country (motherland), I swear on my mother tongue, I swear on my family, that I will take this test sincerely and honestly. *

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◉ I SWEAR.

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✕ If the wheel of an engine of a train 4 2/7 meters in circumference makes seven revolutions in 4 seconds, what is the speed of the train? *0/1

◉ 25 km/hr ✕

○ 27 km/hr

○ 30 km/hr

○ 35 km/hr

Correct answer

◉ 27 km/hr

✕ The dimensions of a piece of iron in the shape of a cuboid are 270 cm x 100 cm x 64 cm. If it is melted and recast into a cube, find the surface of the cube. *0/1

◉ 14,400 cm2 ✕

○ 44,200 cm2

○ 57,600 cm2

○ 86,400 cm2

Correct answer

◉ 86,400 cm2

✗ The owner of the cell phone shop charges 23% more than the cost price. If a customer paid 7011 for a cell phone, find the cost price of the cell phone. *0/1

⊙ 5860 ✗

○ 5220

○ 5700

○ 6750

Correct answer

⊙ 5700

✗ The area of a rectangular plot is increased by 30% and its width remains as it was before. What will be the ratio between the area of the new rectangle and the original rectangle? *0/1

⊙ 10: 3 ✗

○ 13: 10

○ 7: 3

○ Data inadequate

Correct answer

⊙ 13: 10

✗ The radii of two cylinders are in the ratio of 2: 3 and their heights are in the ratio of *0/1
5: 3. The ratio of their volume is

◉ 4: 9 ✗

○ 9: 4

○ 20: 27

○ 20: 25

Correct answer

◉ 20: 27

✗ A man earns a profit of 20% on selling price. Find the profit percent on the cost *0/1
price.

◉ 20% ✗

○ 25%

○ 21%

○ 30%

Correct answer

◉ 25%

✕ If the curved surface area of a sphere is same as the curved surface area of a hemisphere, find the radius of the hemisphere. *0/1

◉ Same as that of the sphere. ✕

◯ Sqrt(2) times that of the sphere.

◯ Sqrt(3) times that of the sphere.

◯ 2 times that of the sphere.

Correct answers

◉ Sqrt(2) times that of the sphere.

◉ Sqrt(3) times that of the sphere.

✓ In a shower 10 cm of rain falls. What is the volume of water that falls on 1.5 hectares of ground? *1/1

◉ 1500 m3 ✓

◯ 1400 m3

◯ 1200 m3

◯ 1000 m3

✕ A 20 m long, and 15 m broad hall is surrounded by a verandah with a uniform *0/1
width of 2.5 m. Find the cost of flooring the verandah at Rs. 3.50 per square meter.

⦿ Rs.500 ✕

◯ Rs.600

◯ Rs.700

◯ Rs.800

Correct answer

⦿ Rs.700

✕ By selling an object for Rs 900, a man earns a profit that is double the loss *0/1
incurred when the object is sold for Rs 450. If he sells it at a profit of 20%, find the
selling price of this object.

⦿ 620 ✕

◯ 618

◯ 554

◯ None of these

Correct answer

⦿ None of these

✗ If the height of a triangle is decreased by 40% and its base is increased by 40%. *0/1
What will be the effect on its area?

⊙ No change ✗

◯ 16% increase

◯ 8% increase

◯ 16% decrease

Correct answer

⊙ 16% decrease

✓ If two spheres have their radii in the ratio 2: 3, the ratio of their volumes is * 1/1

⊙ 8 : 27 ✓

◯ 4 : 9

◯ 6 : 12

◯ 1 : 15

✕ The profit percent gained if an object is sold at Rs 464 is equals to the loss percent when the object is sold at Rs 436. Find the cost price of this object? *0/1

- ⦿ 250 ✕
- ◯ 400
- ◯ 450
- ◯ 500

Correct answer

⦿ 450

✕ A shopkeeper sells an article for Rs 78 and earns double the profit that he would have earned on selling this article for Rs 69. Find the C.P of this article. *0/1

- ⦿ 62 ✕
- ◯ 61.5
- ◯ 55.5
- ◯ 60

Correct answer

⦿ 60

✗ The height of a room to its semi-perimeter is 2: 5. It costs Rs. 260 to paper the walls of the room with paper 50 cm wide at Rs. 2 per meter allowing an area of 15 cm2 for doors and windows. The height of the room is *0/1

○ 2.6 m ✗

○ 3.9 m

○ 4 m

○ 4.2 m

Correct answer

◉ 4 m

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