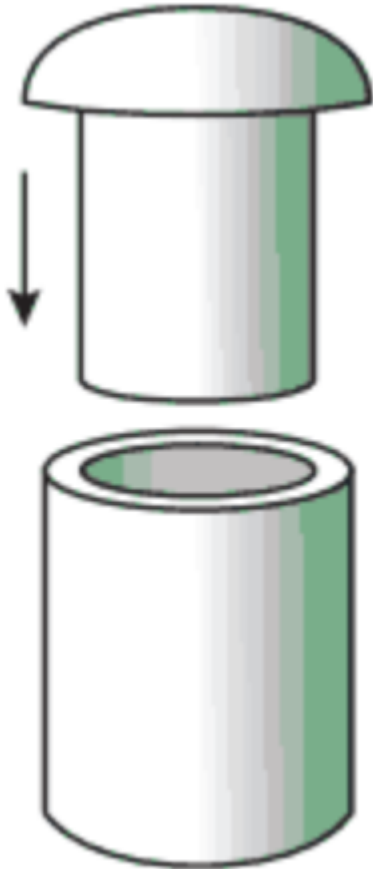


St. Mary's School

Answer Sheet (Subject - Robotics : Class - 9)

?You need to put a metal rod into a hole in a metal cylinder. Its too tight. What would you do to make it fit ?



- Heat the rod and cylinder
- Cool the rod and cylinder
- Heat the rod and cool the cylinder
- Cool the rod and heat the cylinder



The image formed by a plane mirror is

- Erect
- Diminished
- Magnified
- Inverted



If CP of 25 articles is equal to SP of 16 articles find the profit or loss percent?

- Profit 56.25%
- Loss $16 \frac{1}{3}\%$
- Profit $33 \frac{2}{3}\%$
- Loss 56.25%



Which of the following is not an inflammable substance

- LPG
- Wood
- Water**
- Paper



A wooden cube is painted blue on all six faces. The side of the cube is 4 cm. It is cut into smaller cubes of side 1 cm. How many cubes have no face coloured?

- 12
- 16
- 8**
- 0



What is the fastest method of heat transfer

- Convection
- Conduction
- Radiation**
- All of the above



Find the missing number ; 3, 7, 16, 35, ___

- 70
- 71
- 73
- 74**



Sagar is fourteen from the right end in a row of 40 boys. What is his position from left end?

- 24
- 25
- 26
- 27**



Applying brakes on a bicycle causes it to slow down because of

- Friction produced**
- Gravitational pull
- Cooling of the wheels
- None of the above



What is the value of each interior angle of a regular hexagon?

- 120**
- 100
- 60
- 144



A man travels 1 km towards East; thereafter 5 km towards South then 2 km towards east and finally 1 km toward North. How far is he from the starting point of place?

- 9km
- 18km
- 3km
- 5km



?Two persons start walking toward each other from two points 6 miles apart. If their speeds are 1 mile/hr and 1/2 mile/hr, how long will they take to meet at a point?

- 2 hrs
- 4 hrs
- 6hrs
- 1.5 hrs



One of the angles of a triangle is 65. If the difference of the remaining two angles is 25, the remaining angles of the triangle are:

- (70, 50)
- (60,45)
- (70,45)
- (70,60)



A square and an equilateral triangle have equal perimeters. If the diagonal of the square is 12 cm the area of the triangle is

- 48 sq.cm
- 72 sq.cm
- 64 sq.cm
- 48 sq.cm



An aeroplane is flying horizontally with a velocity of 600 km/h and at a height of 1960 m. When it is vertically at a point A on the ground a bomb is released from it. The bomb strikes the ground at point B. The distance AB is

- 1200 m
- 0.33 km
- 3.33 km
- 33 km



I have a few sweets to be distributed. If I keep 2,3,4 in a pack, I am left with 1 sweet. If I keep 5 in a pack I am left with none. What is the minimum number of sweet I have to pack and distribute

- 15
- 25
- 37
- 65



If $\frac{a-3}{a} = \frac{x}{y}$ and $x = 0.4$ and $y = 0.6$ then a is

- 7
- 8
- 9
- 10



In a hostel 25 students drink tea, 20 students drink coffee, 15 students drink milk, 10 students drink both tea and coffee, 8 students drink both milk and coffee. None of them drink tea and milk both, and everyone drink at least one beverage. Then the number of students in the hostel is:

- 27
- 42
- 50
- 68



What has the potential to slow a moving object?

- Friction
- Gravity
- Neither a nor b
- Both a and b



A certain number of horses and an equal number of men are going somewhere. Half of the owners are on their horses back when the remaining ones are walking along. If the number of legs walking on the ground is 80 how many men are there?

- 40 men
- 16 men
- 20 men
- 10 men



In a caravan, In addition to 50 hens, there are 45 goats and 8 camels with same keepers. If the total number of feet is 224 more than the number of heads in the caravan. Find the number of keepers.

- 15
- 10
- 8
- 5



A kite is 20m high and Raju flying the kite is 10m away from it horizontally. The length of the string used (in nearest m) is:

- 22 m
- 22.5 m
- 21.89 m
- 23 m



Find the value of -

$$1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + 1}}}$$

- 5/13
- 5/8
- 1
- 8/5

8/5

At what rate percent per annum will Rs 6500 fetch simple interest of Rs 130 for 6 months?

- 3.25%
- 3.50%
- 7.5%
- 4%

7.5%

Rajan is the brother of Sachin and Manik is the father of Rajan. Jagat is the brother of Priya and Priya is the daughter of Sachin. Who is the uncle of Jagat?

- Rajan
- Manik
- Sachin
- Can't be determined

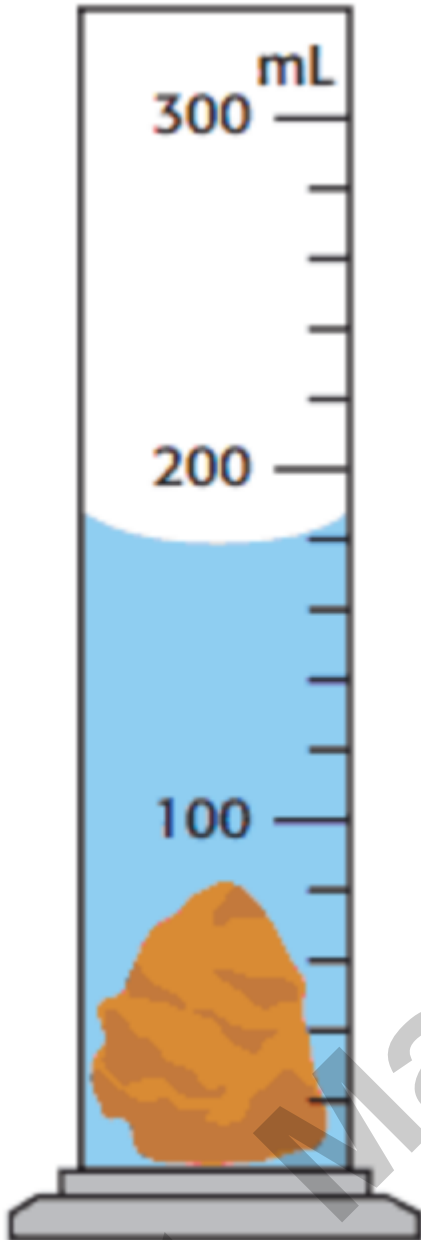
Rajan

Number of eggs in a basket double every minute. The basket is full of egg in one hour. How long will it take for the basket to be 1/8 full?

- 15 minutes
- 7 and half minutes
- 57 minutes
- 45 minutes

7 and half minutes

?If the volume of the rock immersed is equal to 70 ml of the liquid, what is the level of the liquid before it was immersed ?



- 150
- 120
- 90
- 70

X

A body moving with a constant velocity will have -

- Constant retardation
- Zero acceleration**
- Variable retardation
- Constant acceleration

X

?Sound travels at the fastest speed in

- Steel
- Water
- Air
- Vaccum



Find the angle between the hour hand and the minute hand when the time is 25 minutes to 9.

- 12.5 degrees
- 17.5 degrees
- 20 degrees
- 22.5 degrees



St. Mary's School

Report for Robotics Test	
Name	Student Name
School	St. Mary's School
Class	9A
Roll Number	48
Subject	Robotics
Date	2013-09-19
Time Taken	0 hours and 1 minutes
Topicwise Details	
Aptitude	Right-1,Wrong-3,Un-Attempted-6
Maths	Right-1,Wrong-6,Un-Attempted-3
Physics	Right-3,Wrong-4,Un-Attempted-3

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