Daily Dose of Aptitude-28-06-2019

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Daily Dose of Aptitude-20-00-2019
1. The diameter of the base of a cylindrical drum is 35 dm and the height is 24 dm. It is full of kerosene. How many tins each of size $25 \text{cm} \times 22 \text{cm} \times 35 \text{cm}$ can be filled with kerosene from the drum? (use $\pi = 22/7$)
(a) 1200
(b) 1020
(c) 600
(d) 120
2. An electronic device makes a beep after every 60 sec. Another device makes a beep after every 62 sec. They beeped together at 10 a.m. The time when they will next make a beep together at the earliest, is?
(a)10:28 am
(b)10:30 am
(c)10:31 am
(d)10:35 am
3.A and B can do a piece of work for Rs 1560. Find the difference between the wages of C and B for the same work If A can do
the work in 12 days and B can do the same work in 8 days and with the help of C, A and B can do the same work in 2 days
?(Total wages in both the case is same)
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(a) Rs 520
(b) Rs 223
(c)Rs 423
(d) Rs 724
4. There are 6 filling pipes each capable of filling a cistern alone in 16 minutes and 4 emptying pipes each capable of emptying
a cistern alone in 20 minutes. All pipes are opened together and as a result, tank fills 28 litres of water per minute. Find the
capacity of the tank.
(a)145 l
(b)(c)
(c)240 I Talent Battle
(d)180 I
5. A sum of money amounts to Rs. 9800 after 5 years and Rs. 12005 after 8 years at the same rate of simple interest. The rate of interest per annum is:
(a) 12 %
(b) 13 %
(c) 8 %
(d) 12.5 %
6. Busses start from a bus terminal with a speed of 20 km/hr at intervals of 10 minutes. What is the speed of a man coming from the opposite direction towards the bus terminal if he meets the buses at intervals of 8 minutes?
(a)3 km/hr
(b)4 km/hr
(c)5 km/hr
(d)7 km/hr
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Another train starts from B at 9 (a)m. and travels towards A at 75 km/hr. At what time do they meet?
(a)10 am.
(b)10:30 am.
(c)11 am.
(d)11:30 am.
8. The sum of present ages of father and his son is 57 years. 6 years ago, the father was 4 times as old as his son at that time. The present age of son is:
(a) 12 years
(b) 9 years
(c) 15 years
(d) 16 years
9. The ratio of the number of boys to that of girls in a school is 4: 1. If 75% of boys and 70% of the girls are scholarship holders, then the percentage of students who do not get scholarship is:(a) 50%(b) 28%
(c) 75%
(d) 26%
10. The average age of Rinku and Radhika is 18 years. When Rita replaces Radhika, the average age is increased by 1 and
when Radhika replaces Rinku the average age becomes 17 years. What is the age of Rita?
(a) 20 years
(b) 18 years
(c) 16 years
(d) 22 years
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ANSWERS AND SOLUTIONS:
Ans 1: (a) Sol. Number of tins=Volume of cylindrical drum/Volume of a tin $= \pi r^2 h/lbh$ $= (22 \times 350 \times 350 \times 240)/(7 \times 2 \times 2 \times 25 \times 22 \times 35)$ $= 1200 \text{ times are required}$
Ans 2: (c) Sol: L.C.M. of 60 and 62 seconds is 1860 seconds 1860/60 = 31 minutes They will beep together at 10:31 a.m.

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7. The distance between two cities A and B is 330km. A train starts from A at 8 (a)m. and travels towards B at 60 km/hr.

Ans 3: (a)

Sol: Days Capacity

A: 12 2

B: 8 3 {LCM of all:24}

A+B+C: 2 12 Capacity of c=12-5

=7

Ratio of capacityA:B:C=2:3:7

Difference of ways of C & B is = $4/12 \times 1560$

= Rs 520

Ans 4: (b)

Sol: Cistern filled in one min

6/16 - 4/20 = 7/40

Cistern filled in = 40/7 min

Cistern capacity = $= 40/7 \times 28 = 160$ litres.

Ans 5: (a)

Sol: S.I. for 3 years = Rs. (12005 - 9800) = Rs. 2205.

S.I. for 5 years= Rs. 3675

Principal = Rs. (9800 - 3675) = Rs. 6125

Hence Rate = $\{(100 \times 3675) / 6125 \times 5\}\% = 12\%$

Ans 6: (c)

Distance covered in 10 minutes at 20 kmph = distance covered in 8 minutes at (20+x) kmph

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20× 10/60=8/60(20+x)

200 = 160 + 8x

8x = 40

x=40/8=5 kmph.

Ans 7: (c)

Distance travelled by first train in one hour

= 60 x 1 = 60 km

Therefore, distance between two train at 9 a.m.

= 330 - 60 = 270 km

Now, Relative speed of two trains = 60 + 75 = 135 km/hr

Time of meeting of two trains =270/135=2 hrs.

Therefore, both the trains will meet at 9 + 2 = 11 A.M.

Ans 8 (c)

Sol.

Let son's present age = p years+. Present age of father = (57 - p) years

ATQ,

(57 - p—6}=4 (p-6)

=>51-p=4p-24

=> p=15 years

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Ans 9: (d)

Sol. Let the number of boys = 400

Let the number of girls = 100

Total number of students who do not get scholarship

= 400 x 25/100 + 100 x 30/100

= 100 + 30 = 130

Required percentage

= 130/500 x 100 = 26%

Ans 10: (b)

Sol.

Let the ages of Rinku, Radhika and Rita are x, y and z respectively.

X + y = 2x18

=> x+y=36 ..(i)

And x+z=2x19

=> x+z=38 ..(ii)

And y+z=2x17

=> y+z =34 ..(iii)

Age of Rita

=1/2 (36 + 38 + 34) - 36

= 54-36

= 18 years



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