

1. **(d) obsessed: attracted**

Intimate: close (nearly same use)

Evanescent (vanish): permanency (opposite meaning)

Articulate (clear and distinct /capable of speech): speech

Enclose: parenthesis (parenthesis encloses)

Obsessed: attracted (nearly same use)

2. **(c) conciliatory**

Polemical means controversial argument or against some opinion.

Lavish- expended or limitless

Imitative-derivative, not original

Conciliatory-compromising

Attractive- adorable

Hence most opposite meaning word is conciliatory

3. **(c) harmful**

Deleterious means harmful.

4. **(b) not, apart**

Disperse means scatter or not together. Hence the answer is apart.

5. **(b) 7**

Unit's digit in the product = unit's digit of $7^{117} \times 1^{24641} = 7^{117} \times 1 = 7^{117}$

7^{4n} gives unit digit 1 as $117 = 116 + 1 = 29 \times 4 + 1$

Thus 7^{116} gives unit digit 1 and 7^{117} gives unit digit $1 \times 7 = 7$

Thus the required unit digit is 7

6. **(d) I, II and III**

Federal law requires hospitals to treat anyone who walks in.

The finance committee balked at the hefty price and killed the bill, another casualty of a failed legislative session.

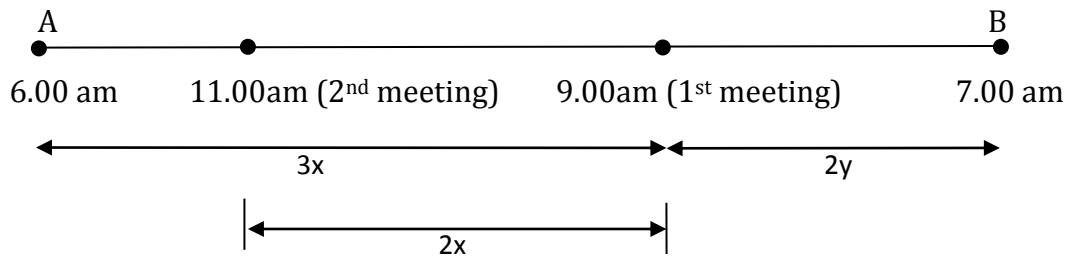
Unfortunately, the problem of access to medical care for those of limited means is not going to go away anytime soon and, despite the well-intended regulations, too-full hospitals compromise everyone's welfare

The above three statements from the passage clearly indicate that, all the three options are one of the factors which has contributed to the overburdening of hospitals.

7. **(d) 6.00pm**

Let speed of Ram is "x" and that of Hari is "y". After 3hrs of Ram started from A (6.00 am) and after 2hrs Hari started from B (7.00 am), both meet at 9.00 am. So during their meet distance travelled by Ram is 3x and by Hari is 2y. Again they

meet at 11.00 am, 2hrs from 9.00 am. During this 2 hr distance travelled by Ram is $2x$.



And distance travelled by Hari is $2y$. As Ram has reached B and again turns back towards A and then they both meet at 11.00am, the distance covered in terms of y is $2y$ (from 1st meeting to B) + $2y$ (from B to 1st meeting point) + $2y$ (from 1st meeting point to 2nd meeting point) = $6y$.

Thus $2x=6y \Rightarrow x=3y$

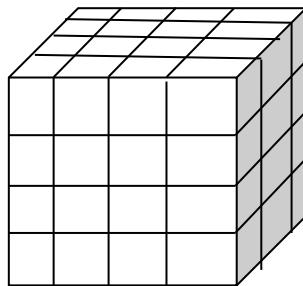
Thus total distance between A and B is $3x+2y=11y$

Hari has already covered $4y$ distance. For covering remaining $7y$ distance, he needs 7 hrs. So the time is 11.00 am +7hrs= 6pm.

8. (b) 250

Starting from zero time (time=0min.), the person thinks for first 5min. (time=5min.) then types 50 lines of code in next 5 min.(time=10min.), then take brake for 5 min.(time=15min.), then again types the remaining 50 lines (of 10 min. typing) for next 5min.(time=20min.). The procedure goes. In first 20 min. he writes 100 lines. Then he thinks for 5 min. (time=25 min.). Again takes break for next 5 min. (as its already 10 min. to take break) (time=30min.), then types for 10 min. (time=40min.). Now he has completed 200 lines of codes in 40 min.. We have 20 min. remaining. Then he takes break for 5 min. (time=45min.) thinks for 5 min. (time=50min.) and got time to type for next 5 min.(time=55min.) as last 5min. is for break time(time=60min.). Thus he can write maximum 250 lines.

9. (a) 24



There are 8 corners cubes are of three sided coloured. Central 4 cubes in all the six faces are 1 sided coloured cubes. Remaining visible border cubes are two side

coloured cubes. Hence, 8 cubes from front side + 8 cubes from back side + 4 from left side + 4 cubes from right side = 24 cubes (all two side colored cubes are covered in these 24 cubes including top and bottom faces)

10. (b) 3

Let's mark the balls using numbers from 1 to 12 and these special symbols:
 x? means I know nothing about ball number x;
 xL means that this ball is maybe lighter than the others;
 xH means that this ball is maybe heavier than the others;
 x. means this ball is "normal".

At first, lay on the left pan balls 1? 2? 3? 4? and on the right pan balls 5? 6? 7? 8?. If there is equilibrium, then the wrong ball is among balls 9-12. Put 1. 2. 3. on the left and 9? 10? 11? on the right pan. If there is equilibrium, then the wrong ball is number 12 and comparing it with another ball it can find out if it is heavier or lighter. If the left pan is heavier, 12 is normal and 9L 10L 11L. weigh 9L and 10L. If they are the same weight, then ball 11 is lighter than all other balls. If they are not the same weight, then the lighter ball is the one up. If the right pan is heavier, then 9H 10H and 11H and the procedure is similar to the former text.

If the left pan is heavier, then 1H 2H 3H 4H, 5L 6L 7L 8L and 9. 10. 11. 12. Now lay on the left pan 1H 2H 3H 5L and on the right pan 4H 9. 10. 11. If there is equilibrium, then the suspicious balls are 6L 7L and 8L. Identifying the wrong one is similar to the former case of 9L 10L 11L. If the left pan is lighter, then the wrong ball can be 5L or 4H. Compare for instance 1. and 4H. If they weigh the same, then ball 5 is lighter than all the others. Otherwise ball 4 is heavier. If the left pan is heavier, then all balls are normal except for 1H 2H and 3H. Identifying the wrong ball among 3 balls was described earlier.

In all possible way at least 3 times we have to weigh to find out which one is odd one.