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7. At what time between 3 O' clock and 4 O' clock, will the minute - hand and the hour - hand of a clock coincide with each other?

- A. $15\frac{3}{11}$ min. B. $16\frac{4}{11}$ min. C. $15\frac{7}{5}$ min. D. $16\frac{9}{5}$ min.

8. What day of the week was 16th July, 1776?

- A. Monday B. Tuesday C. Wednesday D. Friday

9. In a class, Krishna is ranked 8th from the top and 48th from the bottom. How many students are there in his class?

- A. 40 B. 55 C. 60 D. 45

10. Six students are sitting in a row. K is sitting exactly between V and R. V is sitting next to M. M is sitting next to B, who is sitting on the extreme left end and Q is sitting next to R. Who are the neighbours of V?

- A. BM B. KR C. MK D. BQ

Correct answers:

1	2	3	4	5	6	7	8	9	10
D	A	D	B	A	B	B	B	B	C

Explanations:

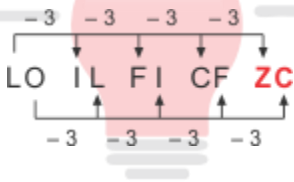
1.

Auto is a 3 - wheeler whereas the other three are 2-wheelers.

Hence, option D is correct.

2.

Pattern of the series is:



Hence, option A is correct.

3.

A C F J
↕↕↕↕
Z X U Q

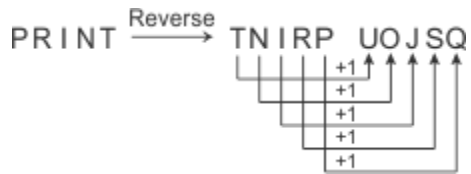
Complementary pairs i.e. sum of their position number is 27

E G I N
↕↕↕↕
V T R M

Hence, option D is correct.

4.

The letters in the word is reversed and each letter is then coded as next letter.



Hence, option B is correct

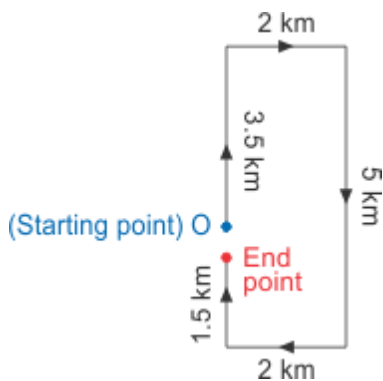
5.

The person is the brother of Aruna as he is the only son of Aruna's father.

Hence, option A is correct.

6.

The movement is



So, we can clearly observe from the above figure that he is in the South of starting point.

Hence, option B is correct.

7.

When the two hands of a clock coincide with each other, the angle between them is 0° .

$$\Theta = \frac{11}{2}m - 30h$$

Here,

$$\Theta = 0^\circ \text{ and } h = 3$$

$$\Theta = \frac{11}{2}m - 30h$$

$$\therefore \frac{11}{2}m = 30 \times 3$$

$$\therefore m = \frac{90 \times 2}{11} = 16\frac{4}{11} \text{ min.}$$

Therefore, the two hands of the clock will coincide at $16\frac{4}{11}$ min. past 3.

Hence, option B is correct.

8.

16th July, 1776 means

(1775 years + 6 months + 16 days)

Now, 1600 years have 0 odd days.

100 years have 5 odd days.

75 years contain 18 Leap and 57 Ordinary years and therefore, (36 + 57) or 93 or 2 odd days.

\therefore 1775 years give $0 + 5 + 2 = 7$ and so, 0 odd days.

Also number of days from 1st Jan, 1776 to 16th July, 1776

Jan. Feb. Mar. Apr. May Jun. Jul.
31 + 29 + 31 + 30 + 31 + 30 + 16

= 198 days = 28 weeks + 2 days = 2 odd days.

\therefore Total number of odd days = $0 + 2 = 2$.

Hence, 16th July, 1776 was Tuesday

Hence, option B is correct.

9.

Using the formula $T = R_T + R_B - 1$, we get $T = 8 + 48 - 1 = 55$.

Hence, there are 55 students in Krishna's class.

Hence, option B is correct.

10.

By arranging the given information, we get:

Six students are sitting in a row.

— — — — —

K is sitting exactly between V and R.

V K R

V is sitting next to M.

M V K R

M is sitting next to B, who is sitting on the extreme left end

B M V K R

And Q is sitting next to R.

B M V K R Q

Who are the neighbours of V?

So, V is sitting between M and K.

Hence, option C is correct.



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The Question Bank

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