

18. Replace a question-mark with the number that has the same feature, as that of in the group

47, 19, 31, ?

- (1) 15 (2) 35 (3) 49 (4) 37

37 (Group of prime numbers)

22. In the year 2003, if Republic Day falls on Sunday, which day will it be on 5th February, in the same year ?

- (1) Sunday (2) Tuesday (3) Thursday (4) Wednesday

Date difference = 31 - 26 = 5, 5+5 = 10

Divide by 7, take remainder, it is 3. Go ahead (as asked date is a later date) by 3 days.

So ans is Wednesday

23. Five blocks are placed one on top of other. The red block is at the bottom. There is no block above the yellow one. The green block is between the blue and the white blocks. What are the colours of the next two blocks below the blue one ?

- (1) Green and White (2) Green and Yellow
(3) Yellow and Red (4) Yellow and White

1. *The red block is at the bottom.*
 2. *Yellow block is at the top.*
 3. *Blue - Green - White or White - Green - Blue, White - Green - Blue can't be as then there will be only one block below Blue one.*
 4. *Hence Top to Bottom order is Yellow-Blue-Green-White-Red.*
 5. *So below Blue block, there are Green and White blocks.*
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24. Rajashree likes the rose and chrysanthemum flowers. Jayashree likes only roses. Radhika likes *jai* and *jui*. Sarika likes all flowers except champa. Which are the two girls who do not like champa and *jui* ?

- (1) Radhika and Jayashree (2) Sarika and Rajashree
 (3) Jayashree and Rajashree (4) Rajashree and Radhika

| | <i>Rose</i> | <i>Chrysan</i> | <i>Jai</i> | <i>Jui</i> | <i>Champa</i> |
|-----------------|-------------|----------------|------------|------------|---------------|
| <i>Rajashri</i> | ✓ | ✓ | | | |
| <i>Jayashri</i> | ✓ | | | | |
| <i>Radhika</i> | | | ✓ | ✓ | |
| <i>Sarika</i> | ✓ | ✓ | ✓ | ✓ | |

Jayashri and Rajashri do not like Champa and jui

1. $2 : 19 :: 4 : ?$

(1) 20

(2) 28

(3) 37

(4) 23

$$2 \times 9 + 1 = 19$$

$$4 \times 9 + 1 = 37$$

9. Tabla, Dholki, Mrudung, Veena :

(1) Tabla

(2) Dholki

(3) Mrudung

(4) Veena

Veena is a string instrument while all other are rhythm instruments.

10. 102, 237, 153, 204 :

(1) 102

(2) 237

(3) 153

(4) 204

$$102 \rightarrow 10/5=2, 153 \rightarrow 15/5 = 3, 204 \rightarrow 20/5 = 4$$

237 doesn't fit.

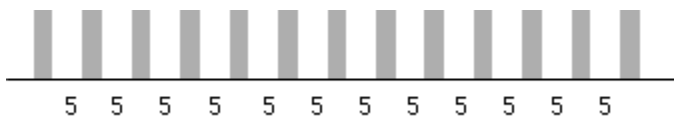
24. 13 students are standing in a line having 5 m distance between two students. Find the length of the line.

(1) 65 m

(2) 55 m

(3) 60 m

(4) 70 m



60 m

Always remember first student is standing at distance 0. Hence distance between m students standing n units apart is $(m-1) \times n$ units.

25. The first day of the year 2003 was Wednesday, what was the day on 1st April, 2003 ?

- (1) Tuesday (2) Thursday
(3) Monday (4) Wednesday

- *January = 31 days = day will advance by 3 days (always remember 31 days month -> 3 days advancement in day)*
- *February = 28 days (2003 non-leap year) = day will advance by 0 days (always remember 28 -> 0 days advancement)*
- *March = 31 days = day will advance by 3 days*

Total advancement = 3 + 0 + 3 = 6

So day on 1st April = Wednesday + 6 = Tuesday

1. Find the number which *does not* fit in the group.

(1) 17

(2) 37

(3) 10

(4) 24

1. $17 = 16 + 1 = \text{Square}(4) + 1$
2. $37 = 36 + 1 = \text{Square}(6) + 1$
3. $10 = 9 + 1 = \text{Square}(3) + 1$
4. $24 = 25 - 1 = \text{Square}(5) - 1$ (MISFIT)

3. In a code language symbols are used for letters. The letters and symbol may not be in the same order. Observe the given information and find the correct answer.

POT = $\square \bigcirc \triangle$

TAG = $\oplus \triangle \star$

DOG = $\square \oplus \bullet$

DOT = ?

(1) $\star \square \bullet$

(2) $\bullet \square \triangle$

(3) $\oplus \square \star$

(4) $\bigcirc \star \triangle$

1. In POT and TAG, T is common, so $T = \triangle$
2. In POT and DOG, O is common, so $O = \square$
3. In TAG and DOG G is common so $G = \oplus$
4. In DOG, O and G have been identified, so $D = \bullet$
5. So DOT = $\bullet \square \triangle$

7. The sum of the ages of Mohini, Rohini and Nalini is 47 years. What was the sum of their ages three years ago ?

- | | |
|--------------|--------------|
| (1) 44 years | (2) 38 years |
| (3) 41 years | (4) 40 years |

Before 3 years all three will be younger by 3 years each.

Hence Sum of their ages before 3 years = Sum of their ages today – 9 = 47 – 9 = 38

11. 5 : 30 :: 7 : ?

- | | |
|--------|--------|
| (1) 55 | (2) 56 |
| (3) 53 | (4) 57 |

Square(5) + 5 = 25 + 5 = 30

Square(7) + 7 = 49 + 7 = 56

6. In a row Sunita is standing 12th from the left and 16th from the right. What is the position of Rohini if she is standing exactly at the centre of the same row ?
- (1) 12 (2) 13
(3) 14 (4) 16

There are 11 persons to the left of Sunita and 15 persons to the right of Sunita.

So total persons = $11+15+1$ (Sunita herself) = 27

Position of the middle person in 27 = 14

7. Sameer's first birthday falls on Monday, 1st January 2001. On which day will his second birthday be celebrated ?
- (1) Monday (2) Tuesday
(3) Wednesday (4) Thursday

Day advances by 1 in a non-leap year ($365/7$, remainder = 1). So ans is Tuesday.

10. In the following number series one term is wrong. Find that term :

2, 5, 8, 17, 26

- (1) 2 (2) 5
(3) 17 (4) 8

$Sq(1) + 1 = 2$, $Sq(2) + 1 = 5$, $Sq(3) + 1 = 10$ (There is 8 instead), $Sq(4)+1 = 17$. $Sq(5) + 1 = 26$

8 is misfit.

1. (1) Gold (2) Charcoal
(3) Silver (4) Iron

Gold, Silver and Iron are metals, whereas charcoal is a non-metal.

4. Kite, Cat, Crow,.....
(1) Parrot (2) Camel
(3) Hare (4) Stork

Camel : Starts with sound 'K'

19. 40 trees are planted in a row at a distance of 5 metres each. What will be the distance between tree no. 4 and tree no. 12 ?
(1) 40 metres (2) 60 metres
(3) 35 metres (4) 45 metres

$$(12 - 4) * 5 = 40 \text{ m}$$

20. In a year if Teacher's day is celebrated on Friday, then on which day will Children's Day be celebrated in that year ?
(1) Friday
(2) Thursday
(3) Saturday
(4) Sunday

1. September 5 = Friday
2. October 5 = +2 (30 days month)
3. November 5 = + 3
4. November 14 = +9

5. *Total = +14*
6. *Divide by 7, see the remainder 0.*
7. *Same day i.e. Friday*

25. A clock takes half a minute for the gong to strike six times. How many seconds will the clock take, if the gong is struck 12 times ?

- (1) 60 (2) 64
 (3) 66 (4) 72

There are 5 intervals in six strikes.

Each interval = $30/5 = 6$ sec.

On 12 o'clock, total intervals = 11

*Time required = $11 * 6 = 66$ Sec*