

SBI SO Mock Test 2

Q 1. The sum of the circumference of a circle and the perimeter of the square is equal to 272 cm. The diameter of the circle is 56 cm. What is the sum of the area of the circle and area of square?

1. 4030
2. 3040
3. 5060
4. 6050

Q 2. Kanya purchased an item of Rs 46,000/- and sold it at a loss of 12%. With that amount she purchased another item and sold it at a gain of 12%. What was her overall gain/loss?

1. 662.4 loss
2. 662.4 gain
3. 542.56 loss
4. 456.80 gain

Q 3. $4004 \times 78 - 21014 = ? \times 115$ approx. value

1. 2533
2. 2300
3. 3500
4. 4900

Q 4. Find the value of $(2^{30} - 2^{26}) / 2$

1. 1
2. 2
3. 4
4. 8

Q 5. A solid metallic cone of height 80 cm, radius of base 40 cm is melted to make spherical balls each having diameter 10 cm. Find the number of such balls.

1. 125
2. 256
3. 64
4. 100

Q 6. A bag contains 5 orange, 7 blue and 4 white balls. Three balls are drawn out at random. Find the probability none of the balls drawn is blue.

1. $1/20$
2. $3/10$
3. $3/20$
4. $4/27$

Q 7. Two trains A and B left towards each other from different stations. After crossing each other, both trains A and B reached their destination within 9 hour and 16 hr respectively. If the speed of train A is 80 km/hr, then find the speed of train B.

1. 60 kmph
2. 50 kmph
3. 40 kmph
4. 20 kmph

Q 8. $9999.09 \div 9 \times 9^2 =$

1. 99991.91
2. 89991.81
3. 78991.71
4. 9999.91

Directions (9-10): Find the missing number in the series

Q 9. 7, 12, 22, 37, 57, ?

1. 82
2. 68
3. 90
4. 76

Q 10. 10, 16, 26, 30, 48, ?

1. 70
2. 80
3. 86
4. 76

Directions (11-15):

Study the information given below and answer the questions that follow:

P, Q, R, S, T and U are cousins. No two cousins are of the same age, but all have birthdays on the same date. The youngest is 17 years old and the oldest is T is 22. U is somewhere between Q and S in age. P is older than Q. R is older than S.

Q 11. Which of the following is not possible?

1. S is 20 years old
2. U is 18 years old
3. U is 19 years old
4. U is 20 years old

Q 12. Which of the following could be the ages of S and R respectively, if Q is 17 years old?

1. 18 and 19
2. 19 and 21
3. 18 and 20
4. 18 and 21

Q 13. Which of the following must be true if exactly two of the cousins are between C and F in age?

1. P is between U and S in age.
2. Q is 17 years old
3. Q is younger than S
4. U is 18 years old.

Q 14. If P is older than R, the number of logically possible orderings of all six cousins by increasing age is

1. 2
2. 3
3. 4
4. 5

Q 15. Which of the following must be true if R is 19 years old?

1. P is 19 years old and S is 21.
2. Q is 19 years old and P is 20
3. Q is 20 years old and P is 21
4. S is 17 years old and Q is 21.

Directions (16-20): Find the appropriate word that can be filled in the blank

Q 16. The recent G7 summit in Biarritz signalled a broader shift in international governance away from constructive co-operation and towards ----- discussions and ad hoc solutions. The conclusion of the summit could be a marker of the world orders future - ending not with a bang but with a whimper.

1. Vague
2. Comprehensible

3. Limpid
4. User-friendly

Q 17. We live in an era of hyperbole, in which gripping accounts of monumental triumphs and devastating disasters take ----- over realistic discussions of incremental progress and gradual erosion, but in International relations, as in anything, crises and breakthroughs are only part of the story; if we fail also to notice less sensational trends, we may well find ourselves in serious trouble - potentially after it is too late to escape.

1. Precedence
2. Override
3. Replace
4. Supplant

Q 18. After the fall of Soviet Union, G7 continued to shape global governance on issues ranging from debt relief to peace operations and global health. In 1997, G7 became the G8, with the addition of Russia. Still the body ----- an era of Western preeminence in an institutionalized liberal world order in full bloom.

1. Complicated
2. Baffled
3. Epitomized
4. Convoluted

Q 19. But even that slight advantage was demolished with his election in 2016. His administration began attacking allies and rejecting shared rules, norms and values. The situation reached a ----- at the G7 summit, where a petulant Minister criticized his host, and he publicly disavowed the summit's final communique as soon as it was issued.

1. Highest point
2. Nadir
3. Zenith
4. Climax

Q 20. Against that backdrop, this year's summit in Biarritz elicited great ----- . With little hope for consensus on any consequential issue, the meetings French hosts focussed on keeping up appearances, choosing expediency over impact. Goals were kept vague. In fact, Macron announced before the event that there would be no final statement, declaring that nobody reads the communique.

1. Trepidation
2. Calmness
3. Composure
4. Equanimity

Directions (21 - 25): In each of the following questions four words are given of which two words are most nearly the same or opposite in meaning. Find the two words which are most nearly the same or opposite in meaning and indicate the number of that pair of words as the answer.

Q 21.

1. Audacious (2) Venturous (3) Abstruse (4) Silent

1. 1-3
2. 2-3
3. 3-4
4. 1-2

Q 22.

1. Eudemonia (2) Extol (3) Eulogise (4) Energise

1. 1-2
2. 2-3
3. 2-4
4. 1-4

Q 23.

1. Recluse (2) Pandemic (3) Transparent (4) Opaque

1. 1-2
2. 3-4
3. 1-3
4. 1-4

Q 24.

1. Diminutive (2) Intelligent (3) Large (4) Prolific

1. 2-4
2. 2-3
3. 1-3
4. 1-2
5. 3-4

Q 25.

1. Enormous (2) Malign (3) Absorb (4) Slander

1. 1-3
2. 2-3
3. 3-4
4. 2-4

Answer Key

Q 1. 2	Q 2. 1	Q 3. 1	Q 4. 4	Q 5. 2
Q 6. 3	Q 7. 1	Q 8. 2	Q 9. 1	Q 10. 1
Q 11. 4	Q 12. 2	Q 13. 4	Q 14. 1	Q 15. 3
Q 16. 1	Q 17. 1	Q 18. 3	Q 19. 2	Q 20. 1
Q 21. 4	Q 22. 2	Q 23. 2	Q 24. 2	Q 25. 3

Solution 1:

Circumference of circle = π * diameter = $\frac{22}{7}$ * 56 = 176 cm

Hence, Perimeter of square = 272 - 176 = 96 cm

Side of square = $96/4 = 24$ cm

Area of square = $24 * 24 = 576$ sq cm.

Area of circle = $\pi * r^2$

= $(\frac{22}{7}) * 28 * 28 = 2464$ sq cm.

Required sum = Area of square + area of circle = 3040 sq cm.

Solution 2:

1st Selling Price = $(46000 * 88) / 100$

= Rs 40480

2nd selling price = $(40480 * 112) / 100$

= Rs 45337.6

Overall Loss = $46000 - 45337.6 = \text{Rs } 662.4$

Solution 3:

Use BODMAS rule to solve the equation.

Solution 4:

$$2^{30} - 2^{26} = 2^4$$

$$16/2 = 8$$

Solution 5:

$$\text{Volume of cone} = \left(\frac{1}{3}\right) \pi r^2 h$$

$$\text{Volume of Sphere} = \left(\frac{4}{3}\right) \pi r^3$$

$$\text{Required number of spherical balls} = \left[\left(\frac{1}{3}\right) \pi r^2 h \right] / \left[\left(\frac{4}{3}\right) \pi r^3 \right]$$

$$\text{Radius of cone} = 40 \text{ cm}$$

$$\text{Diameter of sphere} = 10 \text{ cm}$$

$$\text{Radius of sphere} = 5 \text{ cm}$$

$$= \left[\left(\frac{1}{3}\right) * \left(\frac{22}{7}\right) * 40 * 40 * 80 \right] / \left[\left(\frac{4}{3}\right) * \left(\frac{22}{7}\right) * 5 * 5 * 5 \right]$$

Solving the above equation gives us the answer

$$= 256 \text{ balls}$$

Solution 6:

$$\text{Total number of ways 3 balls can be withdrawn from the bag} = {}^{16}C_3$$

$$= (16 \times 15 \times 14) / (3 \times 2 \times 1) = 560$$

There are 9 balls which are not blue. So the number of ways 3 balls can be withdrawn out of 9 balls from the bag = 9C_3

$$= (9 \times 8 \times 7) / (3 \times 2 \times 1) = 84$$

Hence the probability of withdrawing 3 balls from the bag such that none of them are blue

$$= 84 / 560 = 3/20$$

Solution 7:

$$(\text{Speed of Train A}) / (\text{Speed of Train B}) = \sqrt{(\text{Time taken by Train B}) / (\text{Time taken by Train A})}$$

$$90 / S_b = \sqrt{16/9}$$

$$S_b = (80 * 4) / 3$$

$$S_b = 60 \text{ kmph}$$

Solution 8:

Use the principle of BODMAS to arrive at the answer.

Solution 9:

$$7 + 5 = 12$$

$$12 + 10 = 22$$

$$22 + 15 = 37$$

$$37 + 20 = 57$$

$$57 + 25 = 82$$

Solution 10:

$$10 + 6 = 16$$

$$16 + 10 = 26$$

$$26 + 14 = 40$$

$$40 + 18 = 48$$

$$48 + 22 = 70$$

Solution 11:

Given: T is the oldest. $P > Q$, $R > S$

Thus we have the following arrangements

$$\begin{array}{cccccc} 22 & & 21 & & 20 & & 19 & & 18 & & 17 \\ T & > & P & > & Q & > & U & > & R & > & S \text{ -----(I)} \end{array}$$

T > P > R > Q > U > S -----(II)

T > P > Q > R > U > S -----(III)

T > P > R > S > U > Q -----(IV)

T > R > S > F > P > Q -----(V)

T > R > S > P > U > Q -----(VI)

T > R > P > Q > U > S ----- (VII)

T > R > P > S > U > Q ----- (VIII)

From the above arrangement, D is 20 years old in (V) and (VI). So A is possible. F is 18 years old in (ii), (III),(IV), (VI), (VII). So B is possible. F is 19 years old in (I) and (V). So C is possible. But F is not 20 years old by any of the possibilities. So option (D) is not possible.

Solution 12:

From the above arrangement,

Q is 17 years old in (IV), (V), (VI) and (VII). In (IV), S's age 19 years and R's age is 20 years. In (V) and (VI), S's age is 20 years and R's age is 21 years. In (VIII), S's age is 19 years and R's age is 21 years.

Solution 13:

From the above arrangement, there is a gap of 2 persons between R and U in (VI), (VII) and (VIII) and in each of these cases, U is 18 years old.

Solution 14:

Clearly, from (III), it follows that if R is 19 years old, Q is 20 years old and P is 21.

Solution 15:

Clearly, from (III), it follows that if R is 19 years old, Q is 20 years old, and P is 21.