



SATISH CHANDRA MEMORIAL SCHOOL

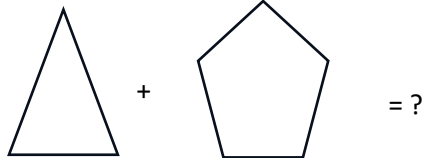
STD: VII

SUB: MATHEMATICS SYLLABUS BASED REASONING TEST-2024

Choose the correct option for the following questions.

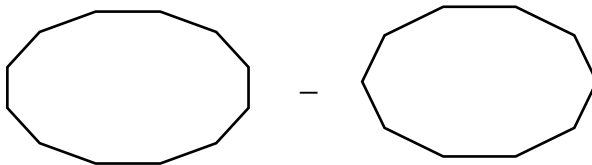
Q1.

Number of sides of



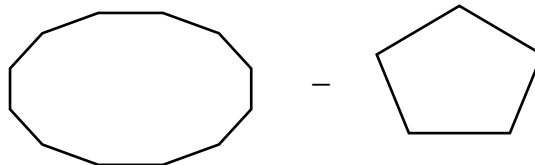
(a)

Number of sides of



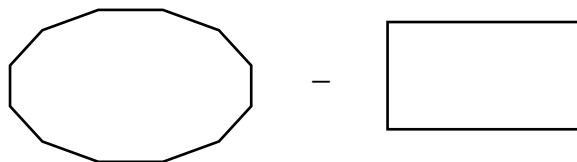
(b)

Number of sides of



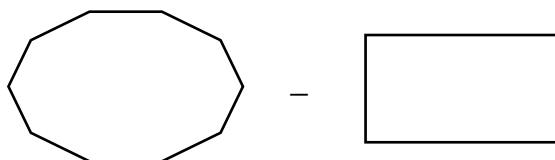
(c)

Number of sides of



(d)

Number of sides of



Q2. $@ \times (\# - \%) = ?$

(a) $(@ \times \#) + (@ \times \%)$

(b) $@ \times \# \times (-\%)$

(c) $(\% \times \#) + (\% \times @)$

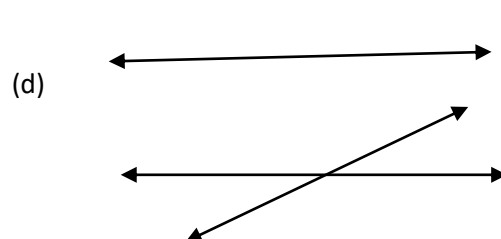
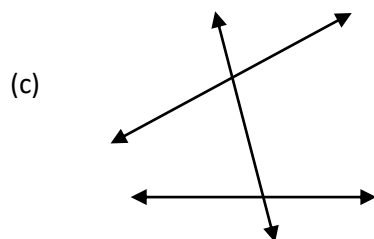
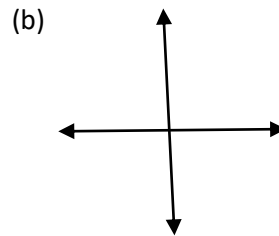
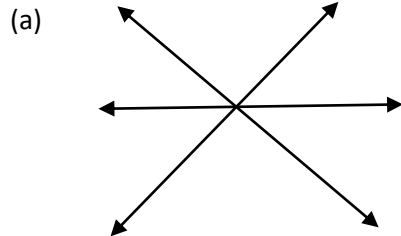
(d) $(@ \times \#) - (@ \times \%)$

Q3. Identify the correct option in place of question mark.

$$-8, -\frac{23}{3}, -\frac{22}{3}, -7, -\frac{20}{3}, -\frac{19}{3}, -6, ?$$

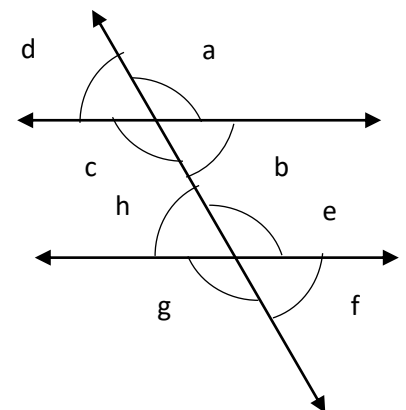
- (a) $-\frac{18}{3}$ (b) $-\frac{17}{3}$ (c) $-\frac{16}{3}$ (d) $-\frac{15}{3}$

Q 4. Select the correct option for the transversal



Q 5. Which of the following option is correct?

- (a) $\angle a$ is corresponding to $\angle f$
 (b) $\angle c$ and $\angle h$ are co – interior angles.
 (c) $\angle d$ is alternate exterior angle to $\angle e$.
 (d) $\angle c$ and $\angle a$ are not vertically opposite angles.



Q6. Assertion: All Rational numbers are integers.

Reason: Between any two integers there are infinite number of rational numbers.

- (a) Both Assertion and Reason is true and Reason is the correct explanation to the Assertion.
 (b) Both Assertion and Reason is true but Reason is not the correct explanation to the Assertion.
 (c) Assertion is true and Reason is false.
 (d) Assertion is false and Reason is true.

Q7. Assertion: $3x - 5y + 9z$ is a trinomial.

Reason: A polynomial with three unlike terms is known as trinomial.

- (a) Both Assertion and Reason is true and Reason is the correct explanation to the Assertion.
 (b) Both Assertion and Reason is true but Reason is not the correct explanation to the Assertion.

(c) Assertion is true and Reason is false.

(d) Assertion is false and Reason is true.

Q8. Algebraic Expression : Polynomial :: ? : Transversal

- (a) Polygon (b) Angles (c) Lines (d) Collinear

Q9. If P denotes $\times$, Q denotes $\div$, R denotes $-$ and S denotes $+$, then which of the following option is correct ?

$$39 P 36 Q 108 R (-71) S 56 = ?$$

- (a) -2 (b) 140 (c) 120 (d) 2

Q10. Find the odd one out

- (a) 0.3333333333..... (b) 0.12112111211112..... (c) 0.1428571428571.....
(d) 1.732732732.....

Q11. 784, 676, 576, 484, 400, 324, ?, ?

- (a) 256, 225 (b) 256, 196 (c) 225, 196 (d) 225, 169

Q12. Y is in the EAST of X which is in the NORTH of Z. If P is in the SOUTH of Z, then in which direction of Y is P?

- (a) NORTH (b) SOUTH (c) SOUTH-EAST (d) NORTH-WEST

Q13. A man walks 4 km towards South and then turns to his right. After walking 3 km, he stopped. How far is he from the starting point?

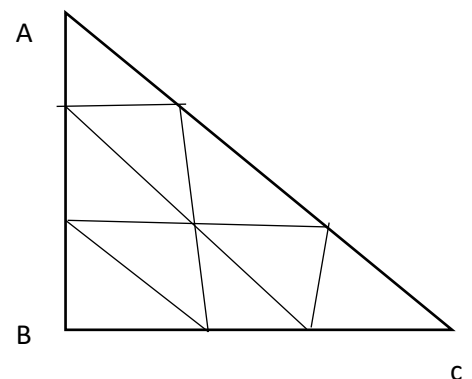
- (a) 8 km (b) 4 km (c) 5 km (d) 3 km

Q14. Which way are you facing now if you walk 10 m to the North and then turn 270° to the right.

- (a) North-East (b) South- West (c) North- West (d) South-East

Q15. How many right angled triangles are in the adjoining figure (Here $AB \perp BC$)?

- (a) 6 (b) 7 (c) 8 (d) 10



Q16. Statement 1: All medians are altitudes for all triangles.

Statement 2: For some triangles altitudes are also median.

Which of the following is correct?

- (a) Only statement 1 is true. (b) Only statement 2 is true.
(c) Both statement 1 and 2 are true. (d) Either statement 1 or statement 2 is true.

Q 17. Which of the following is representing corresponding angles?

- (a) **Z** (b) **A** (c) **F** (d) **R**

Q18. Which of the following is true for right angled triangle?

- (a) $(Hypotenuse)^2 = (Height)^2 - (Base)^2$
(b) $(Hypotenuse)^2 - (Height)^2 = (Base)^2$
(c) $(Hypotenuse)^2 + (Height)^2 = (Base)^2$
(d) $(Height)^2 - (Base)^2 = -(Hypotenuse)^2$

Q19. Identify the correct number in place of question mark

15	12	20
17	13	29
64	25	?

- (a) 484 (b) 361 (c) 441 (d) 529

Q20. Identify the correct number in place of question mark

12.5	43	-17	15
25	32.5	9	?
37.5	22	35	-40

- (a) 25 (b) -25 (c) -12.5 (d) 12.5