



INDIAN SCHOOL SOHAR
SUMMATIVE ASSESSMENT – II

Class VII

MATHEMATICS

Max. Marks : 60

Date: 5 March 2017

Duration : 2Hrs

This question paper consists of 2 printed pages.

This question paper consists of 24 questions.

All questions are compulsory.

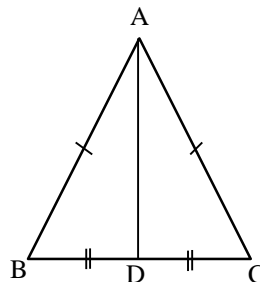
Questions 1 – 6 carry 1 mark each.

Choose the correct answer from the options given.

- If $\triangle ABC \cong \triangle PQR$, which part of $\triangle PQR$ is corresponding to $\angle C$.
a) $\angle P$ b) $\angle Q$ c) $\angle R$ d) \overline{PQ}
- The ratio of 1kg to 500g.
a) 1 : 2 b) 2 : 1 c) 1 : 5 d) 5 : 1
- Standard form of $\frac{36}{48}$.
a) $\frac{3}{4}$ b) $\frac{4}{3}$ c) $\frac{-3}{4}$ d) $\frac{-4}{3}$
- Area of a parallelogram with base 12cm and height 7cm.
a) 19cm^2 b) 42cm^2 c) 38cm^2 d) 84cm^2
- The numerical coefficient of xy in $3x^2 + 5xy - 4y^2$.
a) 3 b) 5 c) 4 d) 2
- The value of 100^0 .
a) 0 b) 1 c) 10 d) 100

Questions 7 – 12 carry 2 marks each.

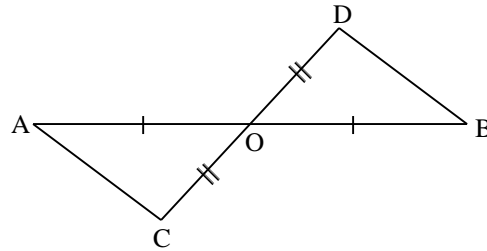
- In fig. $AB = AC$
and D is the midpoint of BC .
State the three pairs of
equal parts in $\triangle ABD$ and $\triangle ACD$.



8. Find 35% of 80.
9. Divide: $\frac{10}{18} \div \frac{45}{81}$
10. Find the area of a triangle with base 15cm and corresponding height 8cm.
11. Add $8x + 5y + 3$ and $6x - 3y - 5$
12. Express 1024 in exponential form taking base as 2.

Questions 13 – 18 carry 3 marks each.

13. In fig. AB and CD bisect each other at O.
State the three pairs of equal parts in $\triangle AOC$ and $\triangle BOD$ and hence write the congruence criterion for $\triangle AOC \cong \triangle BOD$.



14. A shopkeeper bought a table for Rs.6000 and sold it for Rs.7500. Find the gain percent.
15. Construct $\triangle ABC$ with $AB = 4.5\text{cm}$, $BC = 5\text{cm}$ and $AC = 5.5\text{cm}$.
16. Find the circumference and area of a circle whose radius is 35cm. $\left[\pi = \frac{22}{7} \right]$
17. Simplify $a - (a - b) - b - (b - a)$
18. Using laws of exponents, simplify and write the answer in the exponential form

$$\left[\left(2^2 \right)^3 \times 3^6 \right] \times 5^6$$

Questions 19 – 24 carry 4 marks each.

19. Rs. 9000 is borrowed at 4.5% rate of interest per annum for 2 years. Find the interest and amount to be paid at the end of the second year.
20. Find four rational numbers between $\frac{1}{3}$ and $\frac{1}{2}$
21. Construct $\triangle PQR$ with $\angle Q = 60^\circ$, $\angle R = 45^\circ$ and $QR = 6\text{cm}$.
22. A rectangular park is 50m long and 25m wide. A path 5m wide is constructed outside the park. Find the area of the path.
23. Find the value of $a^3 + 5a^2 + 5a - 3$ when $a = -3$.
24. Using laws of exponents simplify and find the value of $\frac{12^4 \times 9^3 \times 4}{6^3 \times 8^2 \times 27}$

