

INDIAN SCHOOL SOHAR
SUMMATIVE ASSESSMENT – II
MATHEMATICS

Class- VII

Time: 2 Hours

Date: 13/ 3/ 16

Marks: 60

General Instructions

1. All questions are compulsory.
2. The question paper consists of 24 questions divided into four sections A,B,C and D. Section A comprises of 6 MCQ each questions of 1 mark, Section B comprises of 6 questions of 2 marks each, Section C comprises of 6 questions of 3 marks each and Section D comprises of 6 question of 4 marks.

SECTION –A (Each question carries 1 mark)

1. Find the value of 15% of 2500 is
 (a) 375 (b) 475 (c) 575 (d) 450
2. Find the formula to find the simple interest ?
 (a) $\frac{PRT}{100}$ (b) $\frac{PT}{100}$ (c) $\frac{PR}{100}$ (d) $\frac{100}{PRT}$
3. Find the standard form of $\frac{-18}{45}$ is.....
 (a) $\frac{45}{-18}$ (b) $\frac{18}{45}$ (c) $\frac{5}{-2}$ (d) $\frac{-2}{5}$
4. Find the formula to find the area of rectangle?
 (a) $l + b$ (b) $l \times b$ (c) $2 \times (l + b)$ (d) $l \div b$
5. Find the value of $2x + 7$, if $x = -2$?
 (a) -4 (b) -3 (c) 4 (d) 3
6. Express the number in the standard form 3180000000000.
 (a) 318×10^{10} (b) 3.18×10^{10} (c) 3.18×10^{12} (d) 318×10^{12}

SECTION –B (Each question carries 2 mark)

7. Using laws of exponents , simplify $[(5^3)^4 \times 5^2] \div 5^{11}$
8. Find the value of $x^2 + y^2 + 2xy$, if $x = (-2)$ and $y = 2$
9. Find the area of circle if radius is 14 cm.
10. The sum of the two rational number is $\frac{5}{9}$. If one of the number is $\frac{1}{3}$, find the other rational number.
11. Find the whole quantity if 40% of it is 5000 Km.
12. Find the area of a square park whose perimeter is 320 m.

SECTION –C (Each question carries 3 marks)

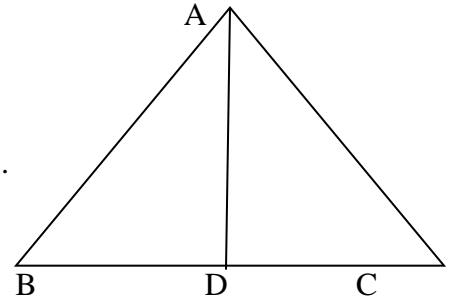
13. On a certain sum the interest paid after 4 years is Rs. 500 at 10% rate of interest per annum. Find the sum.

14. Construct a triangle ABC, given that AB= 5cm., BC = 6cm. , AC = 7cm.
15. The perimeter of the rectangle is 260 cm. and its breadth 30 cm. , find its length and also find the area of the rectangle.
16. Simplify: $(\frac{-2}{3}) + \frac{5}{9} - (\frac{-7}{6})$

17. Simplify using the laws of exponents $\frac{12^4 \times 9^3 \times 4}{6^3 \times 8^2 \times 27^2}$

18 .In the given figure , AB= AC and AD is the bisector of $\angle BAC$,

- (a) state the three pairs of equal parts in the ΔADB and ΔADC .
- (b) $\Delta ADB \cong \Delta ADC$? give reasons.
- (c) $\angle B = \angle C$? give reasons.

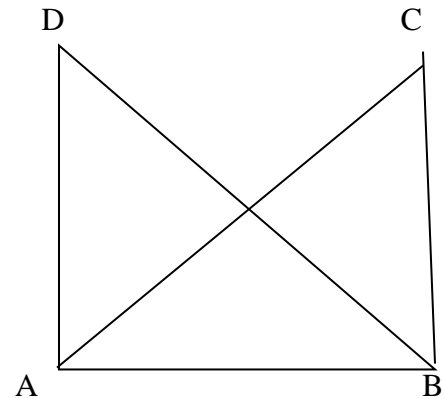


SECTION – D (Each question carries 4 marks)

19. Simplify : $(\frac{13}{9} \times \frac{-15}{2}) + (\frac{7}{3} \times \frac{8}{5}) + (\frac{3}{5} \times \frac{1}{2})$

20. Find the interest on Rs. 5000 for a period of 4 years at the rate of 8% per annum. Also find the amount to be paid at the end of period.
21. Draw a triangle ABC with $\angle C$ a right angle with AB = 5cm. and BC= 4cm. Also find the length of AC.

22. State three pairs of equal parts in ΔABC and ΔDAB . If $DA \perp AB$, $CB \perp AB$ and $AC = BD$. Prove $\Delta ABC \cong \Delta BAD$ and also prove the sides $AD = BC$.



23. From the sum of $3x - y + 11$ and $4x + 5y - 11$, Subtract $3x - y - 11$. .
24. The areas of a square and rectangle are equal. If the side of the square is 40cm. and the breadth of the rectangle is 25 cm. , find the length of the rectangle. Also find the perimeter of the square and rectangle.

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