EDUCATIONAL SERVICES







Statement 1: The area of any parallelogram ABCD, is $AB \times BC$ 18. **CLASS**-VII Statement 2: Ratio of the circumference and the diameter of a circle is more than 3 INSTRUCTIONS This is a MODEL PAPER of National Maths Hunt (NMH). This question paper Which response is correct for the above given statements? contains 20 questions. For each correct answer four marks will be awarded. a) True, true b) False, true There is no negative marking, for each unattempted question zero marks will be c) True, false d) False, false awarded. Use the provided OMR sheet for answering. Use HB pencil/ball point 19. Circumference of a circle is 33 cm. Find its radius. pen to darken the circles. If you wish to change your answer, erase the already a) 21/4 cm b) 22 cm darkened circle completely and then darken the appropriate circle. Use of d) 32 cm c) 21 cm calculator and mobile phone is strictly prohibited during the examination. The factors of the term $-xy^2$ are 20. If a is an integer other than 1 and -1, match the following: 1. a) $\mathbf{x} \times \mathbf{y} \times \mathbf{y}$ b) $-1 \times y \times y$ Column – I Column – II c) $-1 \times x \times y$ d) $-1 \times x \times y \times y$ $A \div (-1)$ (I) А (A) *** (II)**(B)** $1 \div (A)$ 1 $(-A) \div (-A)$ (III) NOT AN INTEGER (C) (D) $A \div (+1)$ (IV) –A a) iii, ii ,I ,iv b) iv, iii, I, ii c) iv, iii, ii, i d) ii, I, iii, iv 2. If Δ is an operation such that for integers a and b we have a Δ b = a $\times a + b \times b - a \times b$, then (-3) $\triangle 2$ is a) 19 b) 3 c) 8 d) 18 3. $2.5 \div 1000$ is equal to a) 0.025 b) 0.0025 c) 0.2500 d) 25000 **ANSWERS** 4. Three boys earned a total of rupees 235.50. What was the average 5.c 6.c 2.a 3.h4.c 7.c 8.c 9.b 10.b 1.c amount earned per boy? 11.b 12.c 13.c 15.c 16.b 17.c 18.b 19.a 20.d 14.c b) Rs. 79 a) Rs. 78 c) Rs. 78.50 d) None of these

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5.	The probability of getting a number greater than 2 on throwing a die once isa) $\frac{1}{2}$ b) $\frac{2}{5}$ c) $\frac{2}{3}$ d) 1A coin is tossed 14 times and the outcomes are recorded as follows: H T T H T H T H T H T H T. The chance of occurrence of 	11.Which of the following cannot be the sides of a triangle?a) 3 cm, 4 cm, 5 cmb) 2 cm, 4 cm, 6 cmc) 2.5 cm, 3.5 cm, 4.5 cmd) 2.3 cm, 6.4 cm, 5.2 cm12.Let ABC and DEF be two triangles in which AB = DE, BC = Fand CA = EF. The two triangles are congruent under the correspondence ABC \leftrightarrow a) DEFb) FDEc) EDFd) All of the above	ŦD
7.	When a term is transposed from one side of the equation to the other side, its gets changed.a) Valueb) Operation d) All of the abovec) Signd) All of the aboveTwo times a number increased by 5 equals 9 can be represented	13. Which of the following rational numbers is equivalent to 2/3? a) $\frac{3}{2}$ b) $\frac{4}{9}$ c) $\frac{4}{6}$ d) $\frac{9}{4}$ 14. Which of the following rational numbers is in standard form? a) $\frac{20}{20}$ b) $\frac{10}{4}$ c) $\frac{1}{2}$ d) $\frac{1}{2}$	
9.	by: a) $2x-8 = 8$ b) $x+9 = 0$ c) $2x+5=9$ d) $2x = 9$ The angles between North and East and North and West are a) Complementary angles b) Supplementary angles c) Both acute angles d) Both obtuse angles	 15. The ratio of the heights 1.50 m and 75 cm of two persons of written as a) 1:50 b) 1:5 c) 2:1 d) 1:2 16. If two ratios are equivalent, then the four quantities are said to be a solution of the solution. 	can be
10.	If two lines are intersected by a transversal, then the number of pairs of interior angles on the same side of the transversal is a) 1 b) 2 c) 3 d) 4	 a) Relation b) Proportion c) Coordination d) Transposition 17. Area of a right triangle is 54 sq. cm. If one of its legs is 12 cm its perimeter is a) 18 cm b) 27 cm c) 36 cm d) 54 cm 	ı long,