

- [illegible]

ANSWERS

1.c	2.a	3.b	4.c	5.c	6.c	7.c	8.c	9.b	10.b
11.b	12.c	13.b	14.c	15.d	16.b	17.c	18.b	19.a	20.d

CLASS –VII

INSTRUCTIONS

This is a MODEL PAPER of National Maths Hunt (NMH). This question paper contains 20 questions. For each correct answer four marks will be awarded. There is no negative marking, for each unattempted question zero marks will be awarded. Use the provided OMR sheet for answering. Use HB pencil/ball point pen to darken the circles. If you wish to change your answer, erase the already darkened circle completely and then darken the appropriate circle. Use of calculator and mobile phone is strictly prohibited during the examination.

- If a is an integer other than 1 and -1 , match the following:

	Column – I	Column – II
(A)	$A \div (-1)$	(I) A
(B)	$1 \div (A)$	(II) 1
(C)	$(-A) \div (-A)$	(III) NOT AN INTEGER
(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
- If Δ is an operation such that for integers a and b we have $a \Delta b = a \times a + b \times b - a \times b$, then $(-3) \Delta 2$ is

a) 19 b) 3 c) 8 d) 18
- $2.5 \div 1000$ is equal to

a) 0.025 b) 0.0025 c) 0.2500 d) 25000
- Three boys earned a total of rupees 235.50. What was the average amount earned per boy?

a) ₹ 78 b) ₹ 79
c) ₹ 78.50 d) None of these

5. The probability of getting a number greater than 2 on throwing a die once is _____.
 a) $\frac{1}{2}$ b) $\frac{2}{5}$ c) $\frac{2}{3}$ d) 1
6. A coin is tossed 14 times and the outcomes are recorded as follows:
 H T T H T H H H T T H T H T. The chance of occurrence of a head is
 a) 40% b) 30% c) 50% d) 70%
7. When a term is transposed from one side of the equation to the other side, its _____ gets changed.
 a) Value b) Operation
 c) Sign d) All of the above
8. Two times a number increased by 5 equals 9 can be represented by:
 a) $2x-8=8$ b) $x+9=0$ c) $2x+5=9$ d) $2x=9$
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
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

11. Which of the following cannot be the sides of a triangle?
 a) 3 cm, 4 cm, 5 cm b) 2 cm, 4 cm, 6 cm
 c) 2.5 cm, 3.5 cm, 4.5 cm d) 2.3 cm, 6.4 cm, 5.2 cm
12. Let ABC and DEF be two triangles in which $AB = DE$, $BC = FD$ and $CA = EF$. The two triangles are congruent under the correspondence $ABC \leftrightarrow$ _____.
 a) DEF b) FDE
 c) EDF d) All of the above
13. Which of the following rational numbers is equivalent to $\frac{2}{3}$?
 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) $\frac{20}{30}$ b) $\frac{10}{4}$ c) $\frac{1}{2}$ d) $\frac{1}{-3}$
15. The ratio of the heights 1.50 m and 75 cm of two persons can be 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 in _____.
 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 long, its perimeter is
 a) 18 cm b) 27 cm c) 36 cm d) 54 cm