(For QUESTION 16-17) : Anagha, Sushant and Faizal are climbing the steps to a hill top. Anagha is at the step p. Sushant is 10 steps ahead and Faizal is 6 steps behind Anagha.

16. Where are Sushant and Faizal?
a) 10+p,10–p b)10+p,p–10 c)10–p,6–p d)10+p,p–6

17. The total number of steps to the hill top is 3 steps less than 8 times what Anagha has reached. Expression of the total number of steps using p.
a) 8p+3 b)8p-3 c)3p+8 d)3p-8

18. In algebra, letters may stand for
a) known quantities b) unknown quantities
c) fixed numbers d) none of these

19. Which of the following letters does not have any line of symmetry?
a) E b) T c) N d) X

20. The distance of the image of a point (or an object) from the line of symmetry (mirror) is _____ as that of the point (or an object) from the line (mirror).
a) Different b) Co-aligned
c) Same d) Half

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ANSWERS

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

CLASS –VI

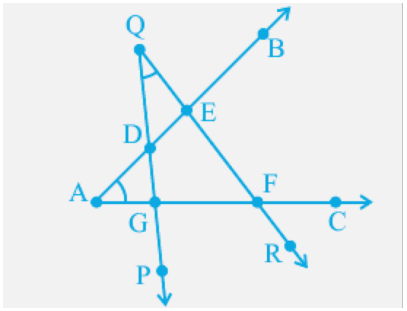
INSTRUCTIONS

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.

1. Which of the following statements is not true?
a) The HCF of two distinct prime numbers is 1
b) The HCF of two co prime numbers is 1
c) The HCF of two consecutive even numbers is 2
d) The HCF of an even and an odd number is even

2. Which of the following pairs is not co-prime?
a) 8, 10 b) 11, 12 c) 1, 3 d) 31, 33

3. The number of common points in the two angles marked in Fig. is__



a) 6 b) 5 c) 4 d) 3

4. A polygon has prime number of sides. Its number of sides is equal to the sum of the two least consecutive primes. The number of diagonals of the polygon is
a) 4 b) 5 c) 7 d) 10

5. Amulya and Amar visited two places A and B respectively in Kashmir and recorded the minimum temperatures on a particular day as –4°C at A and –1°C at B. Which of the following statement is true?
a) A is cooler than B
b) B is cooler than A
c) There is a difference of 2°C in the temperature
d) The temperature at A is 4°C higher than that at B

6. Fill in the blank using <, > or = to make the statement correct
3 + (–2) ____ 3 + (–3)
a) > b) < c) = d) ≅

7. A rectangle is divided into certain number of equal parts. If 16 of the parts so formed represent the fraction $\frac{1}{4}$, find the number of parts in which the rectangle has been divided.
a) 64 b) 68 c) 70 d) 60

8. Which of the following fractions is the greatest?
a) $\frac{5}{7}$ b) $\frac{5}{6}$ c) $\frac{5}{9}$ d) $\frac{5}{8}$

9. Katrina rode her bicycle $6\frac{1}{2}$ km in the morning and $8\frac{3}{4}$ km in the evening. Find the distance travelled by her altogether on that day.
a) $13\frac{1}{4}$ b) $16\frac{1}{4}$ c) $17\frac{1}{4}$ d) $18\frac{1}{4}$

10. The choices of the fruits of 42 students in a class are as follows:
A , O , B , M , A , G , B , G , A , G , B , M , A , G , M , A , B , G , M , B , A , O , M , O , G , B , O , M , G , A , A , B , M , O , M , G , B , A , M , O , M , O where A, B, G, M and O stand for the fruits Apple, Banana, Grapes, Mango and Orange respectively. Which two fruits are liked by an equal number of students?
a) A and M b) M and B c) B and O d) B and G

11. 20 tons of iron costs Rs 600000.The cost of 560kg of iron is
a) 16000 b) 17000 c) 16800 d) 16750

12. A carpenter had a board which measured 3m × 2m. She cut out a rectangular piece of 250cm × 90cm. What is the ratio of the area of cut out piece and the remaining piece?
a) 5:3 b) 7:5 c) 6:7 d) 3:5

13. Which of the following statements are true or false?
I. Geeta wants to raise a boundary wall around her house. For this, she must find the area of the land of her house.
II. A person preparing a track to conduct sports must find the perimeter of the sports ground.
a) True, true b) False, true
c) True, false d) False, false

14. The length of a rectangular field is thrice its breadth. If the perimeter of this field is 800m, what is the length of the field?
a) 200m b) 400m c) 300m d) 550m

15. Perimeter of an isosceles triangle is 50cm. If one of the two equal sides is 18cm, find the third side.
a) 14m b) 15m
c) 18cm d) None of the above