

BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA.

**ANSWER KEY (HINTS) MAY ASSIGNMENT (2026-27)
CLASS- IX (MATHEMATICS)**

**TOPIC: THE WORLD OF NUMBERS; ORIENTING YOURSELF: THE USE OF
COORDINATES; THE MATHEMATICS OF MAYBE: INTRODUCTION TO PROBABILITY**

1. (C)
2. (A)
3. (A)
4. Use Pythagoras theorem: $\sqrt{17} = \sqrt{4^2 + 1^2}$
On the number line, take 4 units on the x-axis and draw a perpendicular of 1 unit. The hypotenuse will be $\sqrt{17}$ units long. Use a compass to swing this length down to the number line.
5. Check whether $MA + AG = MG$ or not, if yes then M, A and G lies on same straight line otherwise not.
6. 6073/2475
7. (a) Red face card: $6/52 = 3/26$
(b) A king or a queen: $8/52 = 2/13$
(c) A black of heart: 0 (Hearts are always red)
(d) A jack of spade: $1/52$
(e) An ace: $4/52 = 1/13$
(f) A king and a diamond: $1/52$ (The King of Diamonds)
9. (A) Sum is prime = $15/36 = 5/12$
(B) Product is perfect square = $8/36 = 2/9$
(C) Difference = $3 = 6/36 = 1/6$
(D) Doublet = $6/36 = 1/6$
(E) Sum = $13 = 0$
10. (A) Coordinates of M = (5, -3)
(B) Reflection across x-axis = (5, 3)
(C) Abscissa = 5
(D) Point on y-axis = (0, -3)