

BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA.

JULY ASSIGNMENT (ANSWER KEY)

CLASS- IX (MATHEMATICS)

TOPICS: HERON'S FORMULA AND LINEAR EQUATIONS IN TWO VARIABLES

SECTION – A (MULTIPLE CHOICE QUESTIONS)

1. (A) $y = 0$

2. (A) $20\sqrt{2}$ cm

3. (D) $y = 3x$

SECTION – B (2 MARKS QUESTIONS)

4. $a=2$, yes $(-2, -3)$ lies on the same line

5. $32\sqrt{2}$ cm²

SECTION – C (3 MARKS QUESTIONS)

6. Area = 720 cm², $h = 80$ cm

7. $(2, 3)$

SECTION – D (5 MARKS QUESTIONS)

8. i) height of equilateral triangle = $\frac{\sqrt{3}}{2} \times \text{side}$

Area = 46.77 cm²

ii) $p + q + r = 60$

$p = 20$, $q = 25$, $r = 15$

Area = 150 sq. unit

9. $p = -2$

(i) $x + y + 1 = 0$

(ii) Infinitely many

(iii) No

SECTION – E (CASE STUDY)

10 (i) $x + y = 120$, $4x - y = 360$

$x = 96$

OR

$y = 24$

(ii) 70

(iii) 100