

## Worksheet: Heron's Formula

Punjab State Board · Class 9 · Mathematics · 10 questions · 26 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 26

**Q1.** Find the area of a triangle with sides 13 cm, 14 cm, 15 cm. *[2 marks]*

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**Q2.** Find the area of a triangle with sides 6 cm, 8 cm, 10 cm. *[2 marks]*

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**Q3.** Find the area of an equilateral triangle with side 8 cm. *[1 mark]*

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**Q4.** A triangle has sides 11 m, 15 m, 20 m. Find the semi-perimeter. *[1 mark]*

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**Q5.** An isosceles triangle has equal sides 5 cm and base 6 cm. Find its area using Heron's formula. *[3 marks]*

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**Q6.** A triangular field has sides 50 m, 78 m and 112 m. Find its area. *[3 marks]*

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**Q7.** An equilateral triangle has area  $493 \text{ cm}^2$ . Find its side and perimeter. [3 marks]

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**Q8.** A triangle has sides in the ratio  $5 : 12 : 13$  and perimeter  $60 \text{ cm}$ . Find its area. [3 marks]

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**Q9.** Find the area of quadrilateral ABCD where  $AB = 9$ ,  $BC = 12$ ,  $CD = 5$ ,  $DA = 8 \text{ cm}$  and diagonal  $AC = 15 \text{ cm}$ . [4 marks]

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**Q10.** A rhombus has perimeter  $40 \text{ cm}$  and one diagonal  $16 \text{ cm}$ . Find the area using Heron's formula on one half. [4 marks]

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