# Worksheet: Area

Maharashtra State Board · Class 8 · Mathematics · 8 questions · 16 marks

| Name: _____ | Date: _____ | Score: _____ / 16 |
|---|---|---|

**Q1.** Two rectangles measure 7 cm × 4 cm and 8 cm × 3 cm. Which statement is true? *[1 mark]*

A) Both different

B) Equal perimeters, different areas

C) Both equal

D) Equal areas, different perimeters

**Q2.** A parallelogram has sides 5 cm and 4 cm. Its area is: *[1 mark]*

A) exactly 20 cm²

B) exactly 10 cm²

C) less than 20 cm²

D) more than 20 cm²

**Q3.** If every length of a figure is doubled, its area becomes: *[1 mark]*

A) 2 times as large

B) unchanged

C) 8 times as large

D) 4 times as large

**Q4.** In ABC, the altitude to BC is 4 units with BC = 6 units, and AC = 8 units. Find the altitude BY drawn to AC. *[2 marks]*

**Q5.** Find the area of a trapezium whose parallel sides are 24 m and 36 m, with a perpendicular distance of 14 m between them. *[2 marks]*

**Q6.** A bent tube of uniform width 1 has nine straight arms measuring 20, 20, 20, 15, 15, 10, 10, 5 and 5. Find its area. *[3 marks]*

**Q7.** Seven parallelograms are drawn on a grid, each on a base of 5 units between the same pair of gridlines 3 units apart, but leaning by different amounts. Compare their areas and their perimeters. *[3 marks]*

**Q8.** A regular hexagon is cut by a long diagonal and by a radius into a trapezium, an equilateral triangle and a rhombus. Find the ratio of their areas. *[3 marks]*