

## Worksheet: Area

NIOS · Class 8 · Mathematics · 5 questions · 13 marks

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

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

Score: \_\_\_\_\_ / 13

**Q1.** Find area of a triangle with base 10 cm and height 7 cm. [1 mark]

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**Q2.** Find area of circle with radius 21 cm. (~~A~~ 22/7) [1 mark]

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**Q3.** A field is in the shape of a rectangle (length 30 m, breadth 20 m) with a semicircular extension at one end (radius = 10 m). Find the total area. [3 marks]

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**Q4.** A cylindrical tank has radius 7 m and height 10 m. (a) Find its volume. (b) Find the area to be painted on its curved surface (use ~~A~~ 22/7). [3 marks]

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**Q5.** A swimming pool is 25 m long, 10 m wide, and 1.5 m deep. (a) Find its volume in cubic metres. (b) How much water (in litres) is needed to fill it to the top? (c) Find the surface area of the walls and floor (NOT including the top open surface). ( $1 \text{ m}^3 = 1000 \text{ L}$ ). [5 marks]

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