

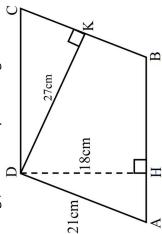
Test / Exam Name: Maths – Perimeter And Area Standard: 7th Subject: Mathematics
 Student Name: Section: Roll No.:
 Questions: 18 Time: 01:00 hh:mm Marks: 30

Instructions

- Honesty is the best policy.
- Start a new section from a new page

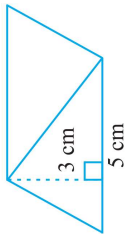
SECTION-A

- Q1.** Mark (✓) against the correct answer. 1 Mark
 Each side of an equilateral triangle is 8cm. Its area is:
A $16\sqrt{3}\text{cm}^2$ **B** $32\sqrt{3}\text{cm}^2$ **C** $24\sqrt{3}\text{cm}^2$ **D** $8\sqrt{3}\text{cm}^2$
- Q2.** If the radius of a circle is tripled, the area becomes: 1 Mark
A 9 times. **B** 3 times. **C** 6 times. **D** 30 times.
- Q3.** Circumference of a circle of diameter 5cm is: 1 Mark
A 3.14cm **B** 31.4cm **C** 15.7cm **D** 1.57cm
- Q4.** In Fig., ABCD is a parallelogram in which AD = 21cm, DH = 1cm and DK = 27cm. The perimeter of the parallelogram is: 1 Mark

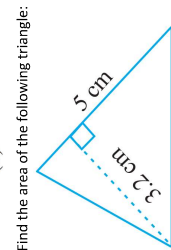


- Q5.** The ratio of the areas of two squares, one having its diagonal double that of the other, is: 1 Mark
A 105cm **B** 84.5cm **C** 169cm **D** 52.5cm
- Q6.** Circumference 'C' of a circle can be found by multiplying diameter 'd' with _____. 1 Mark
A 2 : 1 **B** 3 : 1 **C** 3 : 2 **D** 4 : 1
- Q7.** Find the circumference of the circle with the following radius: (Take $\pi = \frac{22}{7}$) 1 Mark
 21cm.

Q8. Find the area of the following parallelograms:

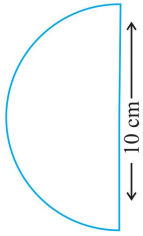


(b)

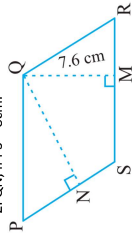


(b)

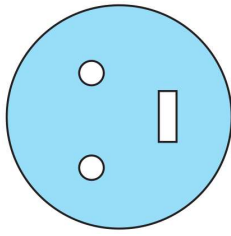
- Q10.** If area of a triangular piece of cardboard is 90cm^2 , then the length of altitude corresponding to 20cm long base is ____ cm. 1 Mark
- SECTION-B**
- Q11.** Find the perimeter of the adjoining figure, which is a semicircle including its diameter. 2 Marks



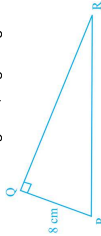
Q12. PQRS is a parallelogram. Fig. QM is the height from Q to SR and QN is the height from Q to PS. If SR = 12cm and QM = 7.6cm. Find:
 1. The area of the parallelogram PQRS
 2. QN, if PS = 8cm. 2 Marks



Q13. From a circular card sheet of radius 14cm, two circles of radius 3.5cm and a rectangle of length 3cm and breadth 1cm are removed, (as shown in the adjoining figure). Find the area of the remaining sheet. (Take $\pi = \frac{22}{7}$) 2 Marks

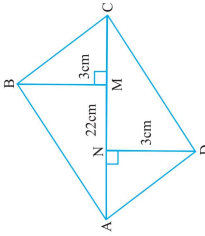


Q14. Find the cost of polishing a circular table-top of diameter 1.6m, if the rate of polishing is Rs. 15/ m^2 . (Take $\pi = 3.14$) 2 Marks
Q15. Area of a triangle PQR right-angled at Q is 60cm^2 . If the smallest side is 8cm long, find the length of the other two sides. 3 Marks

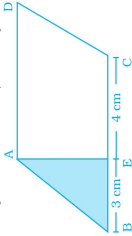


Q16. Find the area of the quadrilateral ABCD. 3 Marks

Here, AC = 22cm, BM = 3cm,
 DN = 3cm, and
 BM \perp AC, DN \perp AC



Q17. In Fig, find the area of parallelogram ABCD if the area of shaded triangle is 9cm^2 . 3 Marks



Q18. Find the area enclosed by the following figure: 3 Marks

