

Test / Exam Name: Force_and_pressure_ch11 Standard: 8th

Subject: Science

Student Name: _____

Section: _____

Roll No.: _____

Questions: 18 Time: 00:40 hh:mm Marks: 30

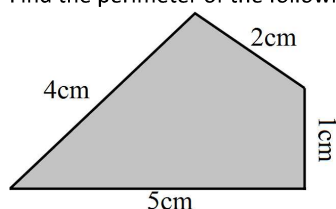
Instructions

1. New section on new page
2. Draw necessary diagrams
3. Keep you paper neat and clean
4. Proper question number should be written for that particular answer
5. Handwriting Should be good.

SECTION-A

- Q1.** If perimeter of a square is tripled, then area will be of original area: **1 Mark**
- A 4 times B $\frac{1}{4}$ times
 C 9 times D $\frac{1}{9}$ times
- Q2.** Perimeter of a square 728cm. then the measure of its side is: **1 Mark**
- A 187cm B 182cm C 128cm D 185cm
- Q3.** If the diagonal of a square is $12\sqrt{2}$ cm then the perimeter of square is **1 Mark**
- A 24cm B $24\sqrt{2}$ cm
 C 48cm D $48\sqrt{2}$ cm
- Q4.** A rectangle has adjacent sides 8cm and 6cm the perimeter of the square is equal to the perimeter of this rectangle find the difference between the area of the square and that of rectangle: **1 Mark**
- A 1cm^2 B 2cm^2 C 3cm^2 D 4cm^2
- Q5.** The area of rectangular field is 150sq. units If its perimeter is 50 units then its dimensions are: **1 Mark**
- A 27, 5 B 3, 50 C 5, 30 D 10, 15
- Q6. Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following: **1 Mark**
- Assertion (A):** Perimeter of a regular pentagon = $5 \times$ Length of a side
Reason (R): The amount of surface enclosed by a closed figure is called its area
- A Both A and R are true and R is the correct explanation of A B Both A and R are true but R is not the correct explanation of A
 C A is true but R is false D A is false but R is true
- Q7.** Fill in the blanks: **1 Mark**
 If the ratio between the length and perimeter of a rectangular plot is 1 : 3, then the ratio between the length and breadth of the plot is _____.

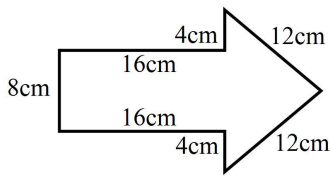
- Q8.** Find the perimeter of the following shape: **1 Mark**



- Q9.** Avneet buys 9 square paving slabs, with a side of $\frac{1}{2}$ m. He lays them in the form of a square. **1 Mark**
 Avneet wonders if there is a way of getting an even greater perimeter. Can you find a way of doing this? (The paving slabs must meet along complete edges i.e. they cannot be broken.)
- Q10.** A piece of string is 30cm long. What will be the length side if the string is used to form: **1 Mark**
 An equilateral triangle?

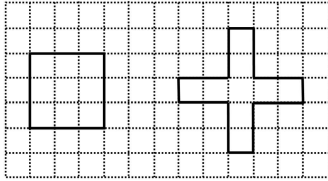
SECTION-B

- Q11.** A lane, 150m long and 9m wide, is to be paved with bricks, each measuring 22.5cm by 7.5cm. Find the number of bricks required. **2 Marks**
- Q12.** A floor is 5m long and 4m wide. A square carpet of sides 3m is laid on the floor. Find the area of the floor that is not carpeted. **2 Marks**
- Q13.** Find the perimeter of the following figure: **2 Marks**



Q14. Avneet buys 9 square paving slabs, each with a side of $\frac{1}{212}$ m. He lays them in the form of a square.

2 Marks



1. What is the perimeter of his arrangement?
2. Shari does not like his arrangement. She gets him to lay them out like a cross. What is the perimeter of her arrangement?
3. Which has greater perimeter?
4. Avneet wonders, if there is a way of getting an even greater perimeter. Can you find a way of doing this? (The paving slabs must meet along complete edges they cannot be broken)

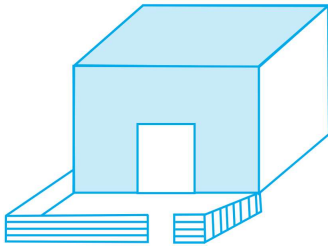
SECTION-C

Q15. Two sides of a triangle are 15cm and 20cm. The perimeter of the triangles is 50cm. What is the third side?

3 Marks

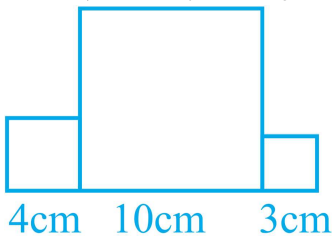
Q16. There is a rectangular lawn 10m long and 4m wide in front of Meena's house (Fig.) It is fenced along the two smaller sides and one longer side leaving a gap of 1m for the entrance. Find the length of fencing.

3 Marks



Q17. Three squares are joined together as shown in Fig. Their sides are 4cm, 10cm and 3cm. Find the perimeter of the figure.

3 Marks



Q18. Split the following shapes into rectangles and find their areas. (The measures are given in centimetres).

3 Marks

