



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



CLASS 8

SUBJECT :Algebra and Geometry

Work sheet 5 answer key

Marks:15

AREAS OF RECTILINEAR FIGURES

(Squares and rectangles)

Date:11.4.2020

Answer all the following questions(1×15=15)

- 1) _____ = $2l + 2b$, where l is length, b is breadth
(a) Perimeter of square (b) Perimeter of rectangle (c) Area of rectangle (d) Area of square

Solution: b

- 2) The area of a square is 64cm^2 . Its perimeter is
(a) 8cm (b) 24cm (c) 32cm (d) none of these

Solution: c , $a^2=64$ so $a=8$, perimeter= $4a=4\times 8=32$ cm

- 3) The perimeter of a square book of side 20cm is
(a) 80cm (b) 100cm (c) 40cm (d) 60cm

Solution: a , $4\times 20=80$ cm

- 4) The perimeter of a carpet whose length is 3m and breadth is 1.8m is
(a) 4.6m (b) 9.6m (c) 4.5m (d) 8.2m

Solution: b , $2(3+1.8) =2\times 4.8=9.6$ m

- 5) The perimeter of a rectangle is 54cm and its length is 12cm. Then its breadth is
(a) 15cm (b) 5cm (c) 10cm (d) 20cm

Solution: a , $2(12+b) =54$, so $12+b=27$, $b=15$ cm

- 6) The length of the side of a square park whose perimeter is 64m is
(a) 4m (b) 8m (c) 16m (d) none of these

Solution: c , $4a=64$ so $a=64\div 4=16$ m

- 7) Area of a rectangle = ?

(a) $l \times b$ (b) $l + b$ (c) $4 \times l$ (d) $l-b$

Solution: a

- 8) Diagonal of a square of side 3cm is
(a) $3\sqrt{2}$ cm (b) 2cm (c) $\sqrt{3}$ cm (d) 6cm

Solution: a , Diagonal of a square is $a\sqrt{2}$ units , a is side

- 9) Area of 4 walls of a room is
(a) $2(l+b) \times h$ (b) $2lb+h$ (c) $2(h+l) \times b$ (d) $2lbh$

Solution: a

- 10) The area of a square whose side is 1.2cm is
(a) 1.44cm^2 (b) 14.4m^2 (c) 0.44cm^2 (d) 144cm^2

Solution: a , $1.2 \times 1.2 = 1.44\text{cm}^2$

- 11) The diagonal of a square is $\sqrt{2}$ cm. The side of the square is
(a) 6cm (b) 1cm (c) 2cm (d) $2\sqrt{2}$ cm

Solution: b , $\sqrt{2}a = \sqrt{2}$, so $a = 1\text{cm}$

- 12) Length and breadth of a rectangle is 3cm and 4 cm. Its diagonal is _____
(a) 5cm (b) 2cm (c) 7cm (d) 12cm

Solution: a , diagonal of rectangle = $\sqrt{(3^2+4^2)} = \sqrt{25} = 5\text{cm}$

- 13) The perimeter of a square is 8cm. Its area is _____ cm^2
(a) 6cm^2 (b) 4cm^2 (c) 7cm^2 (d) 64cm^2

Solution: $4a = 8$, so $a = 2$, $2 \times 2 = 4\text{cm}^2$

- 14) Number of stamps measuring $2\text{cm} \times 1.5\text{cm}$ which can be pasted on a sheet of paper $12\text{cm} \times 6\text{cm}$ is
(a) 72 (b) 24 (c) 48 (d) 100

Solution: b , $(12 \times 6) \div (2 \times 1.5) = 24$

- 15) Unit of perimeter can be _____
(a) m^2 (b) cm^2 (c) m (d) m^3

Solution: c , m