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4th Grade Area and Perimeter Worksheets

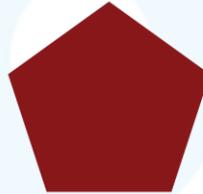
Q.1 If the length and breadth of a park are 30 ft and 20 ft respectively, what is the area of the park?

- a) 290 square feet
- b) 560 square feet
- c) 580 square feet
- d) 600 square feet

Q.2 Find the perimeter of the following figures:



Length of side of star = 4 cm



Length of side of Pentagon = 7 cm

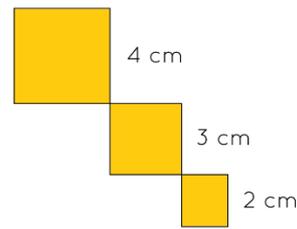
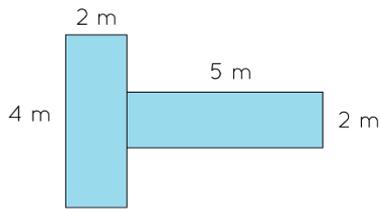
Q.3 True or false:

- a) For regular polygon perimeter is equal to the product of the length of any side and number of sides.
- b) We cannot calculate the area without the height of an object.

Q.4 Match the column:

Perimeter of a square(in units)		Area (in sq units)	
1.	44	a.	400
2.	36	b.	169
3.	52	c.	81
4.	80	d.	121

Q5) Find the area of the following figures.



Q.6 Find the perimeter of a rhombus whose sides are 12 feet long?

Q.7 Tom wants to run 3000 feet. If the length and breadth of the rectangular race track are 100 feet and 50 feet respectively. How many rounds of the track does Tom have to complete?

Q.8 To make one shirt a square piece of cloth with each side measuring 2 m is required. If the total dimension of the pile of cloth is 50 m \times 2 m. How many shirts can be prepared from it?

Q.9 If the perimeter of the square garden is 200 feet, what is the area of the garden?

Q.10 If the cost of irrigating 1 square feet land is \$2 for a whole season then what is the cost of irrigating land with a length of 100 feet and a breadth of 60 feet?

ANSWERS

1. d) 600 square feet	6. 48 feet
2. 48 cm, 35 cm	7. 10 rounds
3. a) True b) False	8. 25 shirts
4. 1---d, 2---c, 3---b, 4---a	9. 2500 sq.feet
5. 18 square m, 29 square cm.	10. \$12000

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SOLUTIONS

Complete solution/explanation

1. d) Area of the park = $30 \times 20 = 600$ square feet

2. a) Perimeter of star = $12 \times 4 = 48$ cm

b) Perimeter of pentagon = $5 \times 7 = 35$ cm

3. a) True b) False

4.

Perimeter of a square(in units)		Area (in square units)	
1.	44 (Each side = $\frac{44}{4} = 11$)	d.	121 (Area = 11×11)
2.	36 (Each side = $\frac{36}{4} = 9$)	c.	81 (Area = 9×9)
3.	52 (Each side = $\frac{52}{4} = 13$)	b.	169 (Area = 13×13)
4.	80 (Each side = $\frac{80}{4} = 20$)	a.	400 (Area = 20×20)

5. a) Area = $4 \times 2 + 5 \times 2 = 8 + 10 = 18$ sq.m

b) Area = $4^2 + 3^2 + 2^2 = 16 + 9 + 4 = 29$ sq.m

6. Perimeter of Rhombus = $4 \times \text{side} = 4 \times 12 = 48$ feet

7. Distance cover by Tom in one round = perimeter of race track

Distance cover by Tom in one round = $2(L+B) = 2(100 + 50) = 2 \times 150 = 300$ feet

Number of rounds around track = Total distance \div distance cover in one round = $3000 \div 300 = 10$ rounds

8. Number of shirts = Area of total cloth \div Area of cloth of 1 shirt

Number of shirts = $(50 \times 2) \div (2 \times 2) = 100 \div 4 = 25$ shirts

9. Perimeter of square garden = $4 \times \text{side} = 200$.

So, side = $200/4 = 50$ feet.

Area of square = side \times side = $50 \times 50 = 2500$ sq.feet.

10. Total cost of Irrigation = Area \times cost of per square feet

Total cost of Irrigation = $(100 \times 60) \times 2 = \12000

FUN FACT

- 1) Rectangles are also referred to as elongated squares.
- 2) Two rectangles with the same perimeter may have different areas.
- 3) The perimeter of a square and a rhombus can be calculated using the same formula, $4 \times \text{side}$.

