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The perimeter of an equilateral triangle is 60 cm find the area of the triangle

Answer TextSolution :Perimeter of the given equilateral triangle = 60 cm.
Length of each of its sides = $(60)/(3)$ cm = 20 cm`.

(i) Area of the triangle = $(\sqrt{3}/4)xx a^2$ sq units
= $(\sqrt{3}/4)xx 20^2$ cm²=(100 xx $\sqrt{3}$)cm²
=(100 xx 1.732)cm² = 173.2 cm² .

Hence, the area of the given triangle is 173.2 `cm²`.

(ii) Let the height of the given triangle be h cm. Then,
"its area"=(1/2)xx "base" xx "height"=(1/2)xx 20 xx h)cm² .
"therefore" "(1/2)xx 20 xx h=173.2 rArr h=(173.2)/(10) rArr "height" = 17.32 cm` .

Hence, the height of the given triangle is 17.32 cm.***** The program for solving problems can give answers completely wrong. prof. Pietro De Paolis 2014 ***** problems solved Electric School Request for information Map for type of school Index of all the pages of the site Scuola Elettrica You can put this solution on YOUR website! . P
= 60cm t = 20cm A = (1/2)bh A = (1/2)20(10√3) A = 100√3 List Answer as Directed Class IX MathMCQ for Heron's Formula 1. The area of a triangle is 150 cm2 and its sides are in the ratio 3 : 4 : 5. What is its perimeter? a. 10 cm b. 30 cm c. 45 cm d. 60 cm 2. What in the area of an equilateral triangle with side 2 cm? a. √6cm2
b. √3cm2 c. √8cm2 d. 4cm2 3. What is the length of each side of an equilateral triangle having an area of a. 4cm b. 5cm c. 5cm d. 6cm 4. The sides of a triangle are 3 cm, 5 cm and 6 cm. What is its area? a. 2√3cm2 b. 4√14cm2 c. 5√12cm2 d. 2√5cm2 5. What is the area of an equilateral triangle with side
a. 2/27 cm2 b. 2/15 cm2 c. 3/16 cm2 d. 3/14 cm2 6. length of one of the equal sides of an isosceles triangle is 4 cm. If its be is 2 cm then what is its area? a. √15cm2 b. √13cm2 c. √12cm2 d. √14cm2 7. If the perimeter of an equilateral triangle is 60 cm, then what is its area? a. 200√2cm2 b. 100√2cm2 c.
100√3cm2 d. 200√3cm2 8. The sides of a triangle are 8 cm, 11 cm and 13 cm. What is its area? a. 8√30cm2 b. 4√10cm2 c. 3√100cm2 d. 6√200cm2 9. The sides of a triangle are 15 cm, 17 cm and 8 cm. What is its area? a. 20cm2 b. 40cm2 c. 60cm2 d. 80cm2 10. The sides of a triangle are in the ratio of 3 : 4 : 5. If
its perimeter is 36 cm, then what is its area? a. 32 cm2 b. 54 cm2 c. 67 cm2 d. 72cm2 Answers 1. D 2. B 3. A 4. B 5. C 6. A 7. C 8. A 9. C 10. B Correct Answer: Description for Correct answer:Let side of triangle are, a, b and c respectively((therefore)) largest side given= 17 cm= Perimeter = a
+ b + c = 40 cm (given)area = 60 (cm²) (given)In such questions take the hekp of triplets which form right angle triangleSo, here we have a side 17 cm(\Rightarrow) by triplet we get sides 8 and 15(\Rightarrow) check the sides(\Large perimeter = 8+15+17=40 \)(\Large area=\frac{1}{2} (times 8 (times 15\Rightarrow 60 \)Hence sides are
15, 8.smaller side = 8 cmPart of solved Mensuration questions and answers : >> Aptitude >> MensurationCommentsSimilar Questions We will discuss here how to find the perimeter of a triangle. We know perimeter of a triangle is the total length (distance) of the boundary of a triangle.Perimeter of a triangle is the sum of lengths of its three sides.
a triangle having sides 3 cm, 8 cm and 6 cm.Solution: Perimeter of a triangle = Sum of all the three sides = AB + BC + AC = 3 cm + 8 cm + 6 cm = 17 cm2. Find the perimeter of the triangle PQR whose sides are 4 cm, 6 cm and 8 cm.Solution: In the figure PQ = 4 cm, PR = 6 cm and QR = 8 cmThe
perimeter of the rectangle PQR= 4 cm + 6 cm + 8 cm = 18 cm3. Find the perimeter of an equilateral triangle whose one side is 5 cm.Solution:A triangle in which all the sides are equal is called an equilateral triangle.Perimeter of the equilateral triangle = 3 × side = 3 × 5 cm = 15 cm
Thus, perimeter = 15 cm.4. Find the perimeter of a triangle whose length of three sides are 8 cm, 11 cm, 13 cm.Solution:To find the perimeter of the triangle, we add all the sides together.Perimeter of a triangle = Sum of all the three sides = 8 cm + 11 cm + 13 cm = 32 cm5. Find the perimeter of a triangle whose
sides are 5 cm, 2 cm and 3 cm. Solution: Perimeter of the triangle is the sum of the lengths of its sides. Perimeter = 5 cm + 2 cm + 3 cm Thus, perimeter = 10 cm.6. Find the perimeter of each triangle. Solution: (i) Perimeter of ΔXYZ = 5.5 cm + 6 cm + 6 cm = 17.5 cm(ii) Perimeter of ΔABC = 8 cm + 6 cm + 6 cm = 20 cm(iii) Perimeter of ΔPQR = 4
cm + 3 cm + 5 cm = 12 cm7. Find the perimeter of the given shapes. Solution:(i) Perimeter = PQ + QR + RS + ST + TU + UV + VP = 2.5 cm + 3 cm + 2 cm + 3 cm + 2.5 cm + 4 cm + 4 cm = 21 cm(ii) Perimeter = PQ + QR + RS + SP = 4 cm + 4 cm + 4 cm + 4 cm = 16 cm(iii) Perimeter = PQ + QR +
RS + ST + TP = 7 cm + 6 cm + 4 cm + 3 cm + 5 cm = 25 cm Practice the questions given in the worksheet on area and perimeter of triangle. Students can recall the topic and practice the questions to get more ideas on how to find the area of triangle and also the perimeter of triangle. 1. Find the area of a triangle having In
worksheet on area and perimeter worksheet we will find the perimeter of a plane closed shape, perimeter of a triangle, perimeter of a square, perimeter of a rectangle, area of a square, area of a rectangle, word problems on perimeter of square, word problems on perimeter We will discuss here how to find the perimeter of a square. Perimeter of a
square is the total length (distance) of the boundary of a square. We know that all the sides of a square are equal. Perimeter of a Square Perimeter of the square ABCD = AB+BC+CD+AD=2 cm+2cm+2cm+2cm We will discuss here how to find the perimeter of a rectangle. We know perimeter of a rectangle is the total length (distance) of the
boundary of a rectangle. ABCD is a rectangle. We know that the opposite sides of a rectangle are equal. AB = CD = 5 cm and BC = AD = 3 cm In area of a square we will learn how to find the area by counting squares. To find the area of a region of a closed plane figure, we draw the figure on a centimeter squared paper and then count the number of
squares enclosed by the figure. We know, that square is The amount of surface that a plane figure covers is called its area. It's unit is square centimeters or square meters etc. A rectangle, a square, a triangle and a circle are all examples of closed plane figures. In the following figures, the shaded region of each of the Practice the questions given in
the worksheet on perimeter. The questions are based on finding the perimeter of the triangle, perimeter of the square, perimeter of rectangle and word problems. I. Find the perimeter of the triangles having the following sides. Recall the topic and practice the math worksheet on area and perimeter of rectangles. Students can practice the questions
on area of rectangles and perimeter of rectangles. 1. Find the area and perimeter of the following rectangles whose dimensions are: (a) length = 17 m Recall the topic and practice the math worksheet on area and perimeter of squares. Students can practice the questions on area of squares and perimeter of squares. 1. Find the perimeter and area of
the following squares whose dimensions are: (a) 16 cm (b) 5.3 m Perimeter of a figure is explained here. Perimeter is the total length of the boundary of a closed figure. The perimeter of a simple closed figure is the sum of the measures of line-segments which have surrounded the figure. We will practice the questions given in the worksheet on
volume of a cube and cuboid. We know the volume of an object is the amount of space occupied by the object.1. Fill in the blanks: We will practice the questions given in the worksheet on area of a square and rectangle. We know the amount of surface that a plane figure covers is called its area. 1. Find the area of the square length of whose sides are
given below: (i) 15 m (ii) 250 m (iii) 25 cm Cuboid is a solid box whose every surface is a rectangle of same area or different areas. A cuboid will have a length, breadth and height. Hence we can conclude that volume is 3 dimensional. To measure the volumes we need to know the measure 3 sides. A cube is a solid box whose every surface is a square
of same area. Take an empty box with open top in the shape of a cube whose each edge is 2 cm. Now fit cubes of edges 1 cm in it. From the figure it is clear that 8 such cubes will fit in it. So the volume of the box will Volume is the amount of space enclosed by an object or shape, how much 3-dimensional space (length, height, and width) it occupies. A
flat shape like triangle, square and rectangle occupies surface on the plane. When we draw a flat shape on a paper, it occupies a certain ● Related Concepts● Units for Measuring Length ● Measuring Instruments ● To Measure the Length of a Line-segment ● Perimeter of a Figure● Perimeter of a Triangle ● Perimeter of a Rectangle● Perimeter of a
Square ● Unit of Mass or Weight ● Examples on Unit of Mass or Weight ● Units for The Measurement of Capacity● Examples on Measurement of Capacity ● Measurement of Time ● Read a Watch or a Clock ● Antemeridian (a.m.) or Postmeridian (p.m.) ● What Time it is? ● Time in Hours and Minutes ● 24 Hour Clock ● Units of Time ● Examples
Units of Time ● Time Duration ● Calendar ● Reading and Interpreting a Calendar ● Calendar Guides us to Know 4th Grade Math Activities From Perimeter of a Triangle to HOME PAGE Didn't find what you were looking for? Or want to know more information about Math Only Math. Use this Google Search to find what you need. Share this page:

What's this? We found a book related to your question. SEE SOLUTIONS We found a book related to your question. SEE SOLUTIONS Perimeter of a Triangle The perimeter of a polygon is the total length of the boundary. For a triangle, we can find it by adding the lengths of its three sides.
We can find the length of the fencing required for a triangular park by finding the perimeter of the triangle. A serving tray as shown forms an equilateral triangle – that is, a triangle with three equal sides. Let each side be 20 cm long. To find the total length of a decorative lace to be pasted on outside borders, one needs to find the perimeter of the
triangle. Since all the three sides of the triangle are of equal length, we can find the perimeter by multiplying the length of each side by 3. 20 + 20 + 20 = 3 × 20 = 60 cm. Thus, the perimeter of an equilateral triangle is 3 times the length of each side. Area of a triangle Area of a two-dimensional shape is the space occupied by the shape. This area
can be found by dividing the shape into unit squares and determining the number of unit squares in the shape as each unit square occupies one square unit space. Consider a rectangle of length 4 cm and width 3 cm. It can be filled with 3 rows and 4 columns of unit squares and therefore the area is 3 times 4 or 12 square centimeter. That is, the area
of a rectangle is the product of its length and width. A rectangle can be divided into two congruent triangles. So, the area of each triangle is half the area of the rectangle. That is 1/2 x l x w. Consider a scalene triangle ΔABC. Note that, to write the area of a triangle as half the area of a rectangle, we need to have the height perpendicular to the base.
So, draw a perpendicular from a vertex to the opposite side. Here, BD is the perpendicular drawn from the vertex B to the opposite side AC. Thus, the area of a triangle is half the product of its base and height. Fun Facts The area A of an equilateral triangle of side length s cm can be calculated using the formula A = √3/4 s2. The value of √3 is about
1.73. Thus, the approximate area becomes, A = 0.4325 s2. Call Now to Set Up Tutoring: (888) 888-0446 Page 2 Call Now to Set Up Tutoring: (888) 888-0446

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