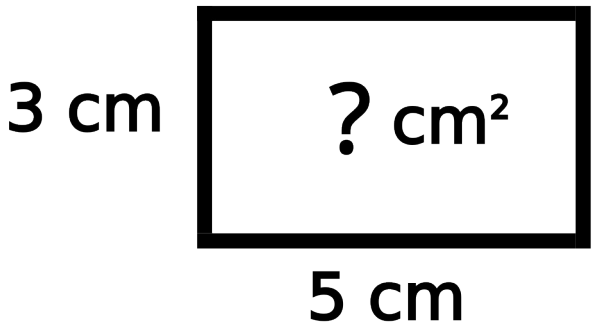
HT J-STEM j-stem.ca info@j-stem.ca

What is your mathematical thinking level? ver. 2024-08-02

If you think you are already good at math, why don't you try to solve each problem within 100 seconds? It will be more thrilling and more enjoyable!

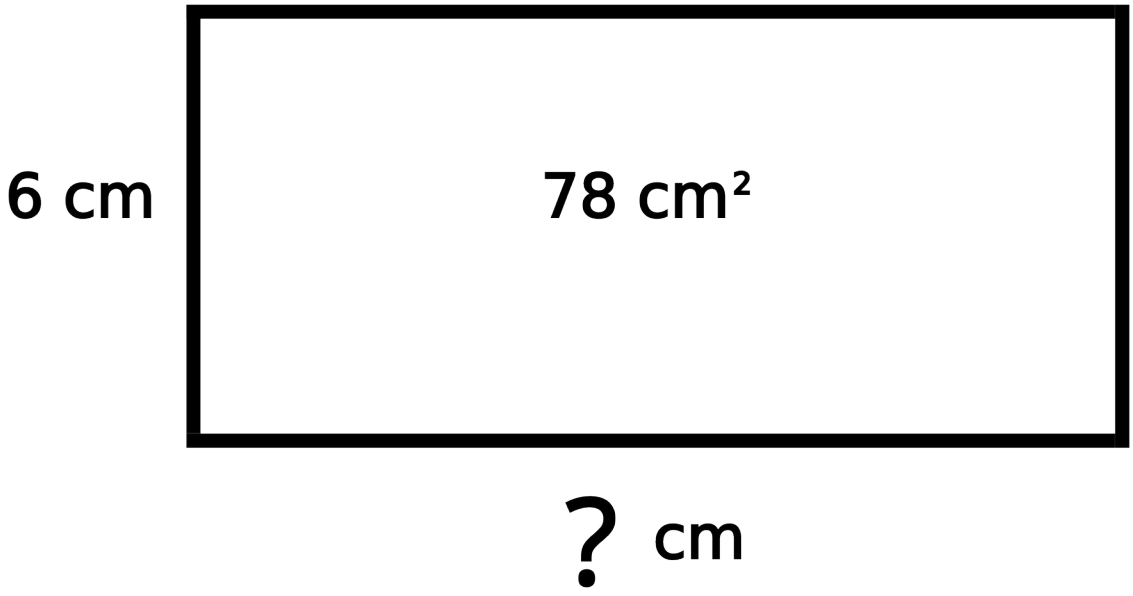
Thinking Lv. 4 < Do You know basics? >

Find the area of the rectangle.



Thinking Lv. 7 < Are you sure you know basics? >

Find the width of the rectangle.



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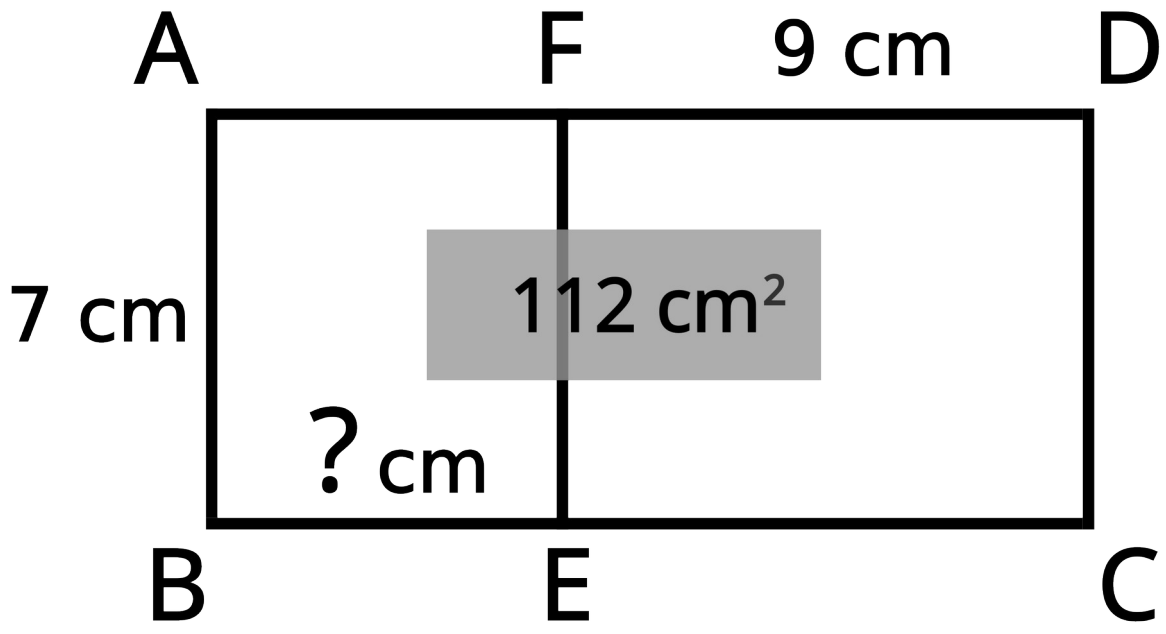
Thinking Lv. 12 < Can you handle a twist? >

ABCD makes a rectangle, and line segment FE is parallel to AB.
The area of rectangle ABCD is 112 cm^2, AB = 7 cm, and FD = 9 cm.
Find the length of line segment BE,



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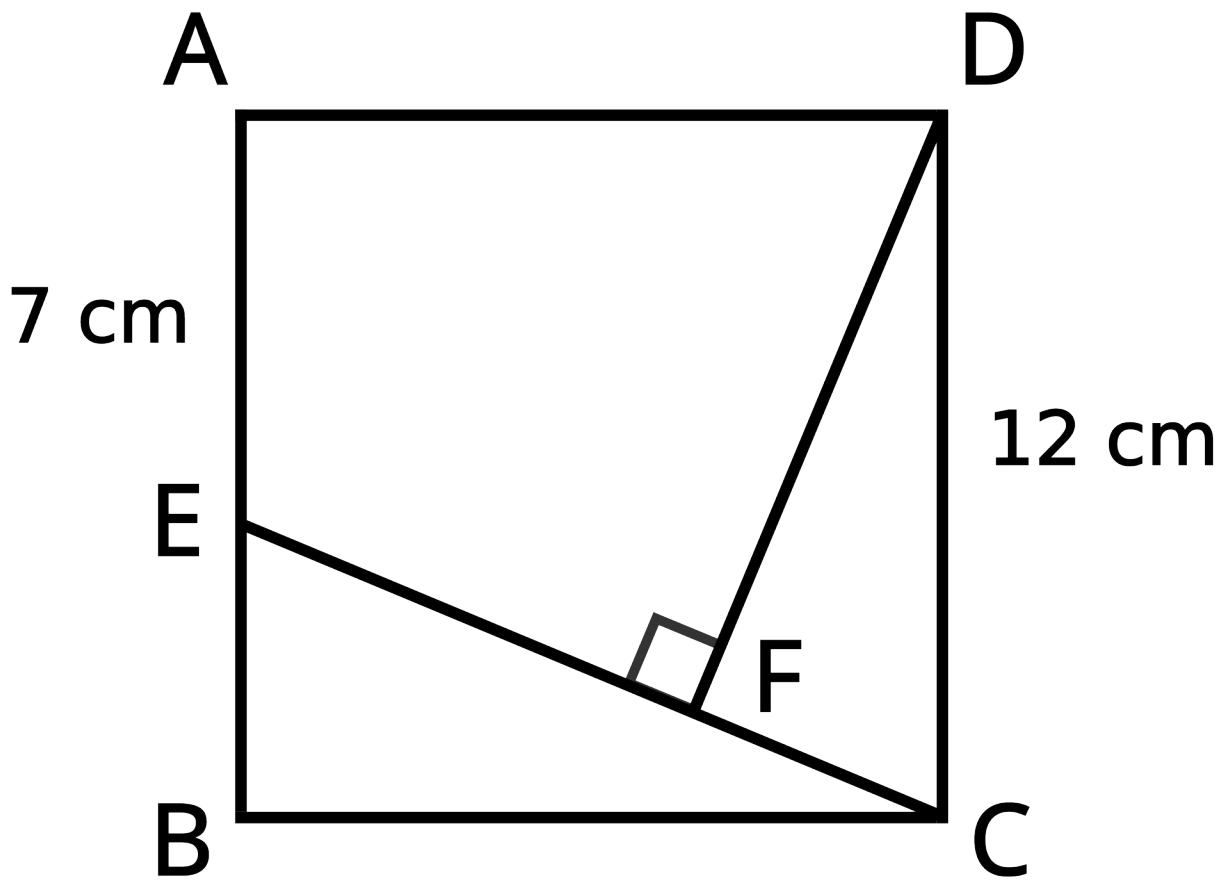
Thinking Lv. 25 < Are you sure you are good at math? >

The shape of a typical origami sheet is square, and its dimensions are 12 cm x 12 cm. First, cut an origami sheet into three parts as shown: triangle BCE, triangle CDF, and quadrilateral AEFD with AE = 7 cm. Then, make a rectangle using these three parts and putting them together without any overlap or gap. Now find the perimeter of this rectangle.



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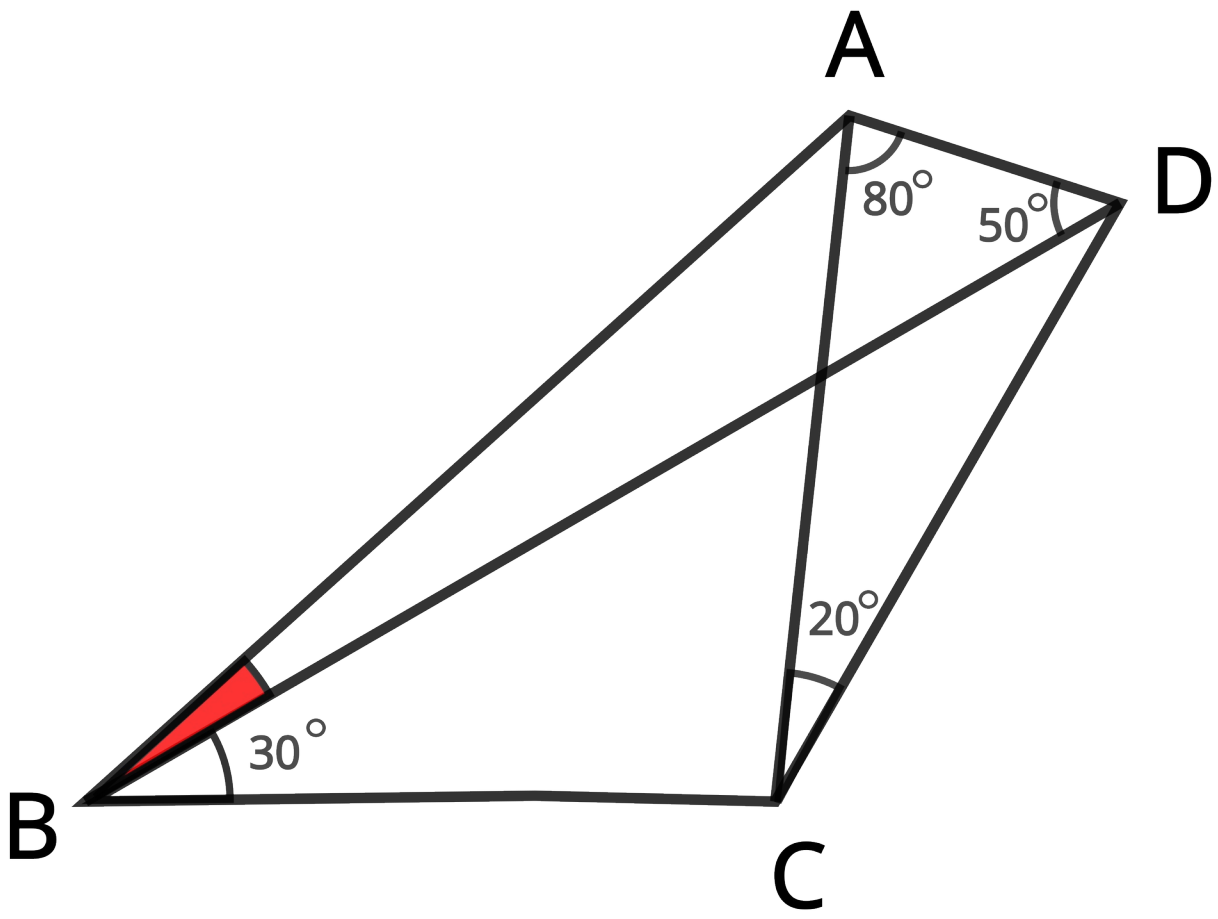
Thinking Lv. 33 < Are you sure you are not too confident? >

Find the measurement of angle ABD.



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Thinking Lv. 71 < Do you get as challenging problems at school? >

Consider quadrilateral ABCD, where line segments CD = DA = 10 cm, angle BAD = 90 degrees, and angle ABC = angle DCB = 67.5 degrees. Find the area of quadrilateral ABCD.

Thinking Lv. 86 < If you want to be a scientist, this is just a start. >

Consider quadrilateral EFGH, where angle HEF = 108 degrees, angle EFG = 168 degrees, and line segments EF = FG = HE. Find the measurement of angle H.