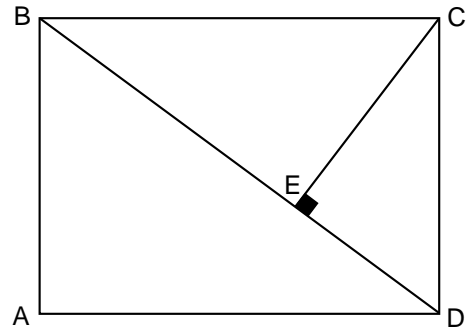


/12

1

In rectangle ABCD shown below, line segment CE is perpendicular to diagonal BD. In addition, $m\overline{ED} = 9$ cm and $m\overline{CD} = 15$ cm.

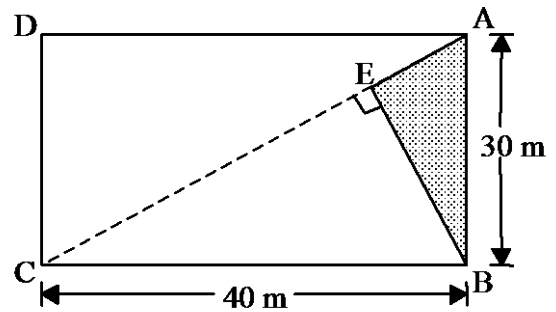
What is the length of diagonal BD?(4pts)



2

Louise wants to buy the piece of land corresponding to triangle BAE shown in the rectangle.

What is the area of this piece of land? (4pts)



3

In the figure to the right, triangle ABC is right-angled at C and \overline{CE} is an altitude. In addition, $m\overline{AB} = 50$ cm and $m\overline{AC} = 40$ cm.

What is the perimeter of triangle ACE? (4pts)

