

WORKING AT B/C

(a) Find AC to 1 decimal place.

(c) Find the perimeter of $\triangle ABC$

A

grey?

(1) The diagram below shows the triangle *ABD*. *BCD* and *AC* are both straight lines.

 $AB = 10cm, BD = 17cm, < DAC = 28^{\circ}$ and $< ABD = 93^{\circ}$

B

C

D

WORKING AT A*/A

(1) A parallelogram has side lengths x and 2x and one interior angle θ . Given that the area of the parallelogram is 6 units, find the possible set of values of x.

(2) The diagram below shows a square *ABCD* of area 36. *AEC* is a straight line and $CE = \sqrt{2}$.



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(b) Find what proportion of $\triangle ABD$ is shaded darker