

Numeracy Year 9 – Week 8: Space

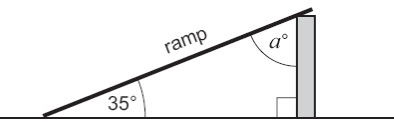
STUDENT WORKSHEET

Focus of the week

Angle properties of familiar 2D shapes

Question 1

A ramp makes an angle of 35° with the ground.



Not to scale

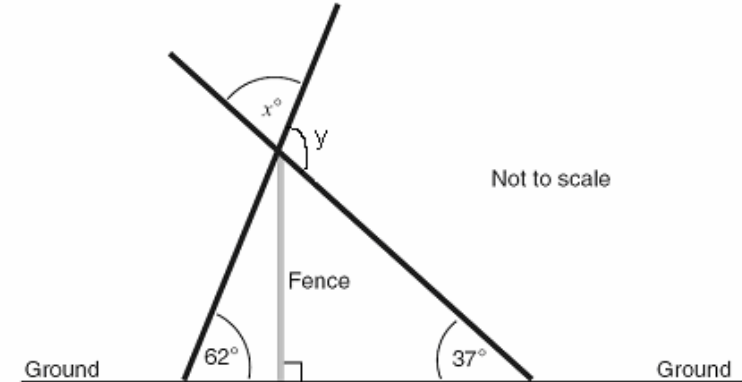
Shade one bubble.

What is the value of a ?

45 55 65 75

Question 2

Two boards are leaning across a vertical fence.



Not to scale

Ground 62° Fence 37° Ground

The size of the angle between the boards is x° .

What is the value of x ?

$x =$ _____

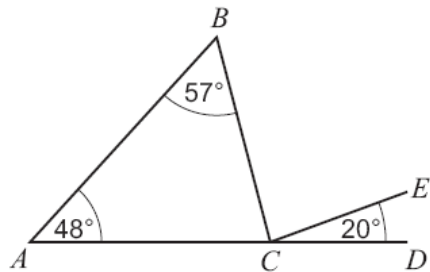
Write the answer on the line.

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Question 3

In the diagram, ACD is a straight line.



Not to scale

What is the size of angle BCE ?

20°

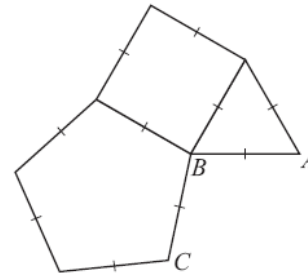
48°

75°

85°

Challenge Question

An equilateral triangle, a square and a regular pentagon meet at point B .



Not to scale

What is the size of the obtuse angle CBA ?

102°

108°

112°

120°