

Code Breaker: Sine and Cosine Rules

The Maths Habit

CRACK THE CODE

Work out each length or angle x , or the area, to 1 decimal place. Lengths are in centimetres. Choose the sine rule, the cosine rule or $\frac{1}{2}ab \sin C$ each time. Look your answer up in the **Code Box** and write the letter it unlocks in the white box. Collect all thirteen letters in the strip, then unscramble them to find the answer.

13
CLUES



1	2	3 Find the area.	4
5	6	7 Find the area.	8
9	10 The area is 30 cm². Find x.	11	12
13 Find the area.	YOUR LETTERS UNSCRAMBLE Clue: red, amber, green (7, 6)		

CODE BOX

4.4 = O

4.9 = N

5.7 = E

7.2 = A

9.8 = C

11.1 = I

11.3 = S

11.7 = T

12.8 = U

13.5 = F

17.4 = R

21.0 = F

33.3 = G

34.7 = D

36.6 = L

38.8 = H

39.4 = I

52.4 = M

85.9 = P

92.9 = T

