

Code Breaker: Enlargement

The Maths Habit

CRACK THE CODE

Answer the question on each tile. Each square is 1 cm. P' is the image of the point P. 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

Find the scale factor.

2

Find the scale factor.

3

Find the scale factor.

4

Find the scale factor.

5

Enlarge A by scale factor 4. Longest side of the image?

6

Enlarge A by scale factor $\frac{1}{2}$. Perimeter of the image?

7

Enlarge A by scale factor 3. Perimeter of the image?

8

Scale factor 2, centre C. The x coordinate of P'?

9

Scale factor 3, centre C. The x coordinate of P'?

10

Scale factor $\frac{1}{2}$, centre C. The y coordinate of P'?

11

The x coordinate of the centre of enlargement?

12

The y coordinate of the centre of enlargement?

13

Scale factor 2, centre C. The x coordinate of P'?

YOUR LETTERS

UNSCRAMBLE Clue: chewy sweets (6, 7)

CODE BOX

0 = S

1 = T

2 = A

3 = E

4 = K

5 = F

6 = N

7 = D

8 = S

9 = F

10 = T

11 = O

12 = C

13 = L

14 = B

18 = U

30 = I

44 = R

$\frac{1}{2}$ = Y

$\frac{1}{3}$ = E

