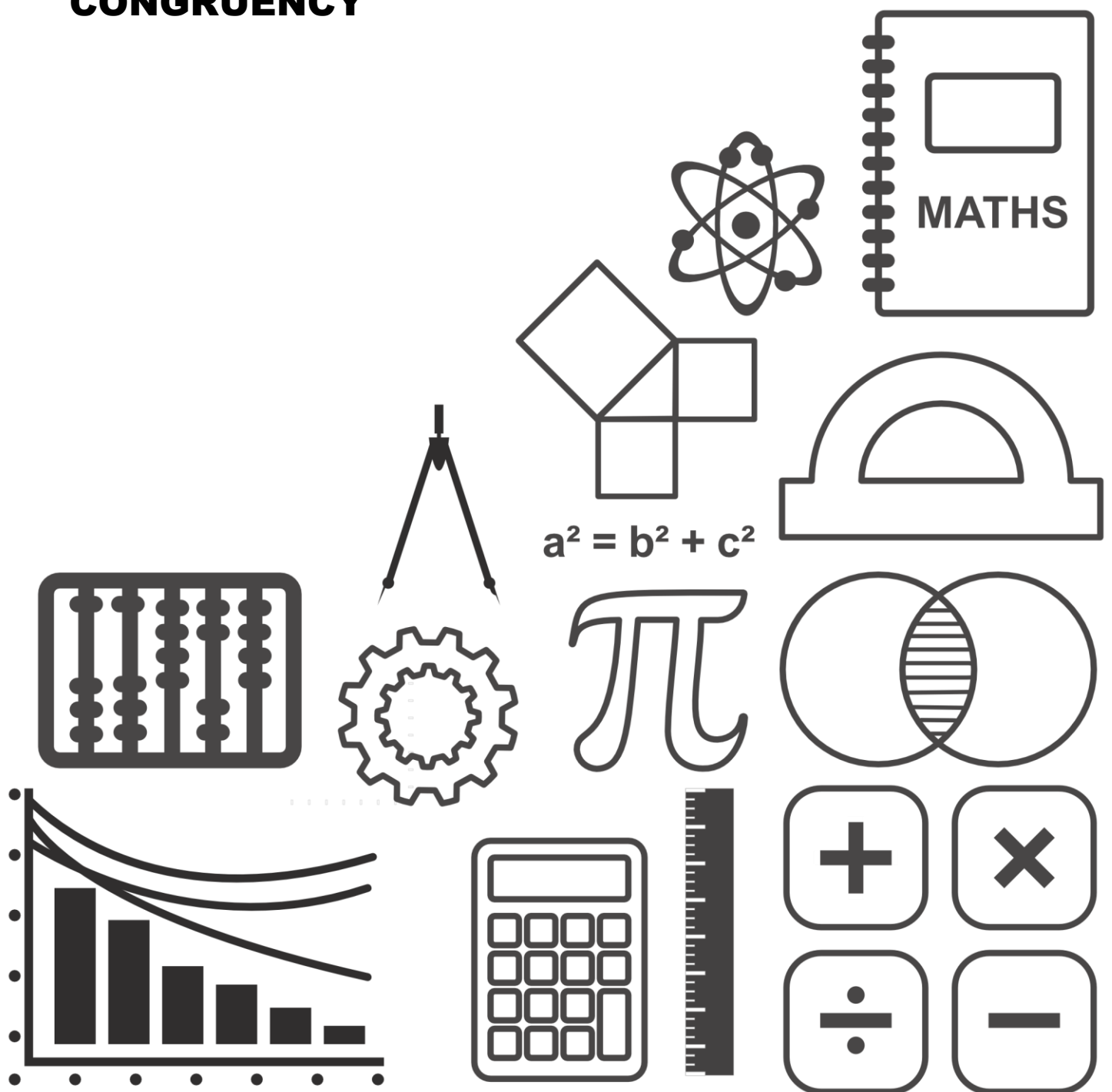


GCSE TOPIC BOOKLET CONGRUENCY

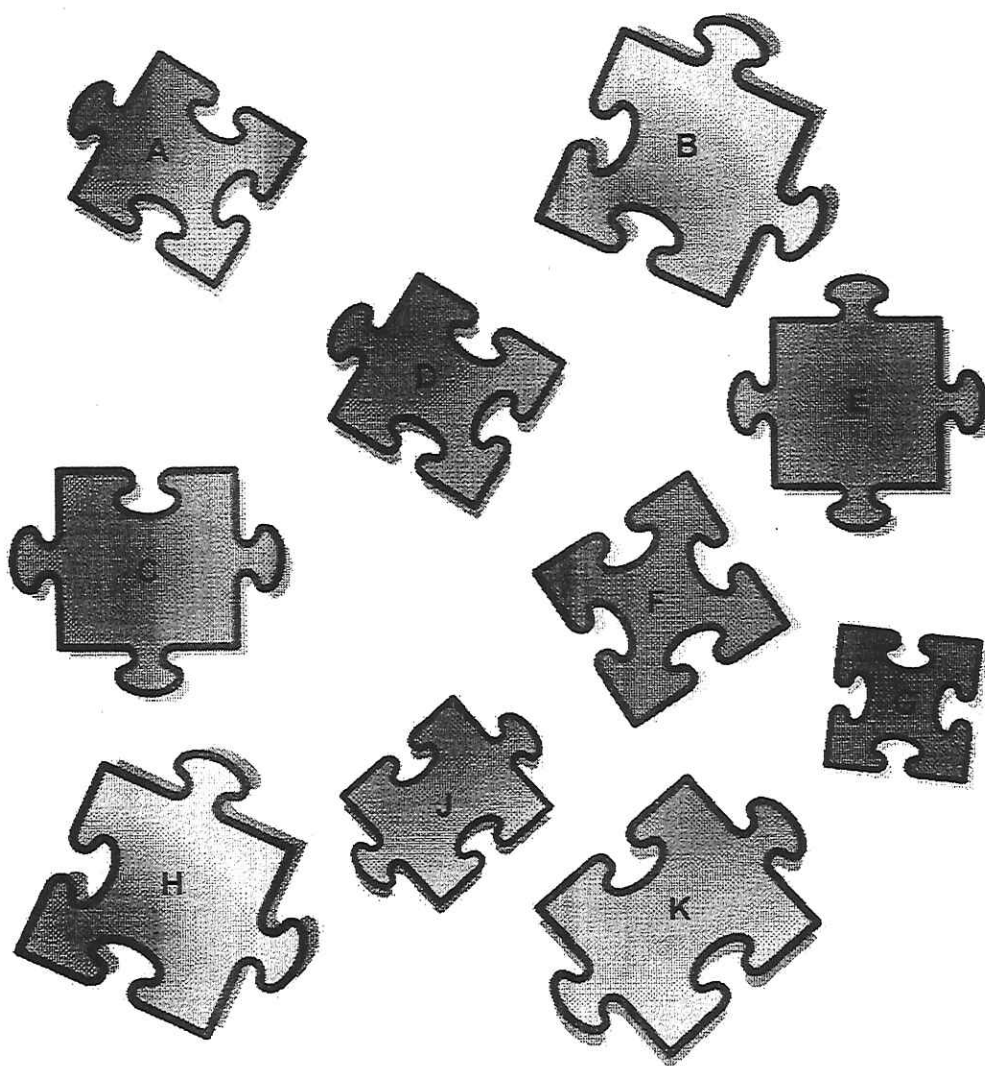


Circle either TRUE or FALSE for each statement given below.

[2]

STATEMENT		
All equilateral triangles are congruent.	TRUE	FALSE
All squares with equal areas are congruent.	TRUE	FALSE
Circles with equal perimeters are congruent.	TRUE	FALSE
All regular octagons are congruent.	TRUE	FALSE

The following shapes are pieces in a child's jigsaw puzzle.



(a) Which pieces of the jigsaw puzzle are congruent?

..... and are congruent

..... and are congruent

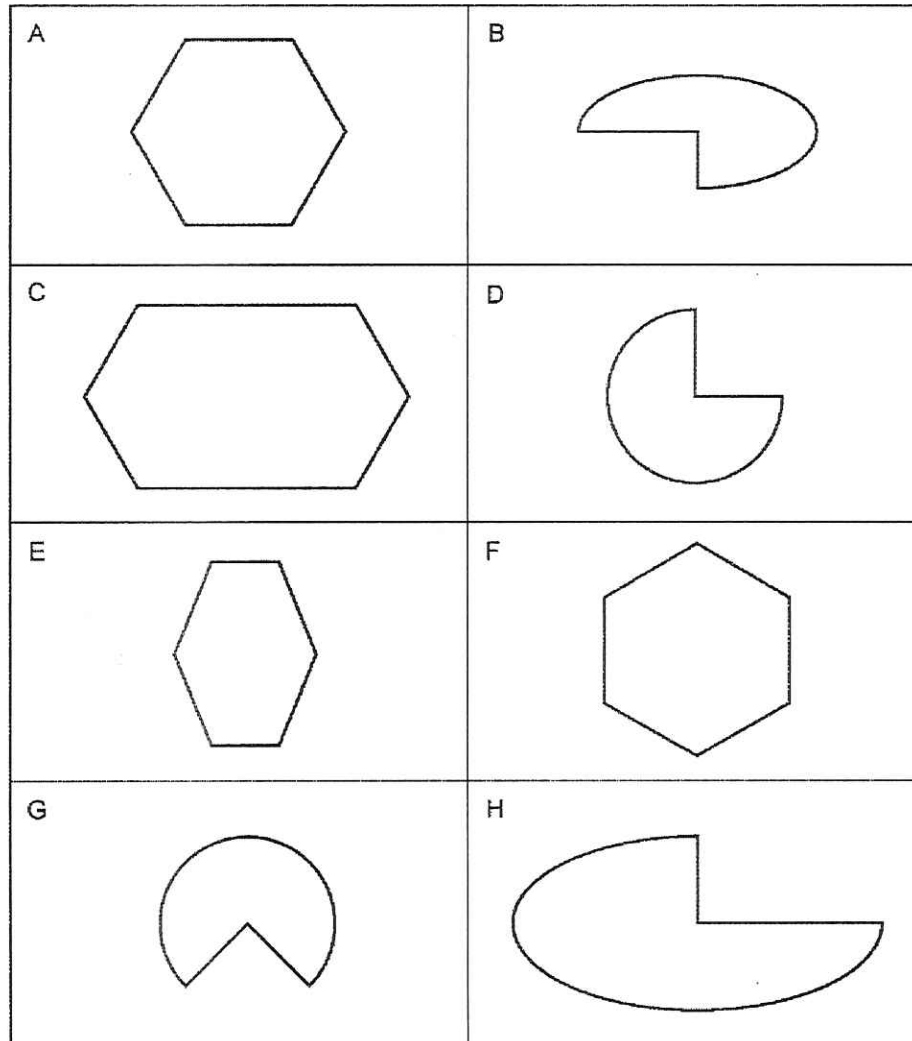
[2]

(b) Which pieces of the jigsaw puzzle are similar but not congruent?

..... and are similar but not congruent

..... and are similar but not congruent

[2]



Use the above shapes to answer the following.

- (a) Write down one pair of congruent hexagons.

[1]

_____ and _____ are congruent hexagons.

- (b) Write down another pair of congruent shapes.

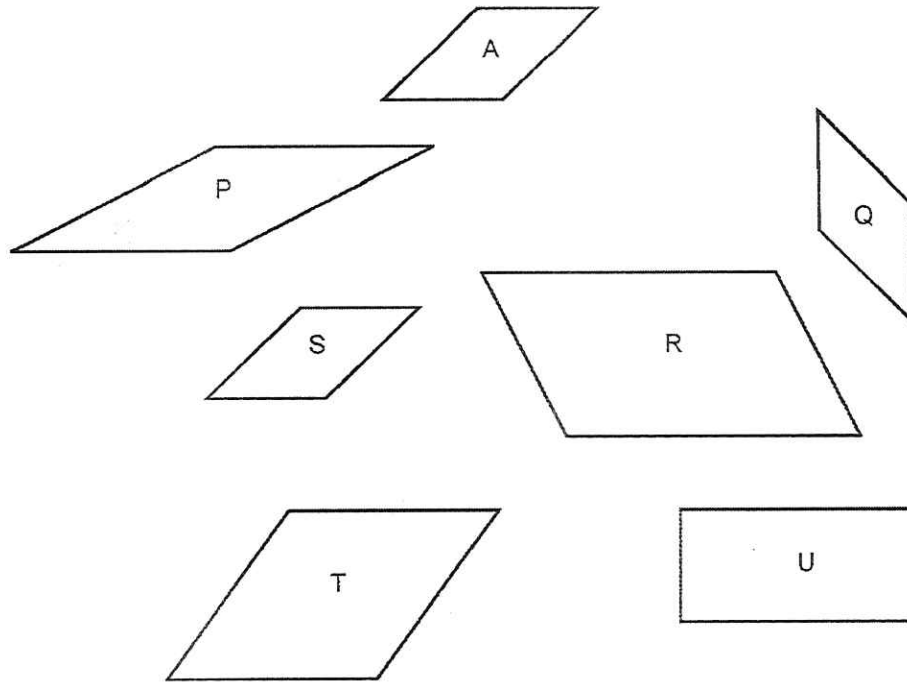
[1]

_____ and _____ are congruent shapes.

- (c) Write down one pair of shapes that are similar but not congruent.

[1]

_____ and _____ are similar but not congruent.



Which of these shapes are congruent to shape A?

[2]

.....

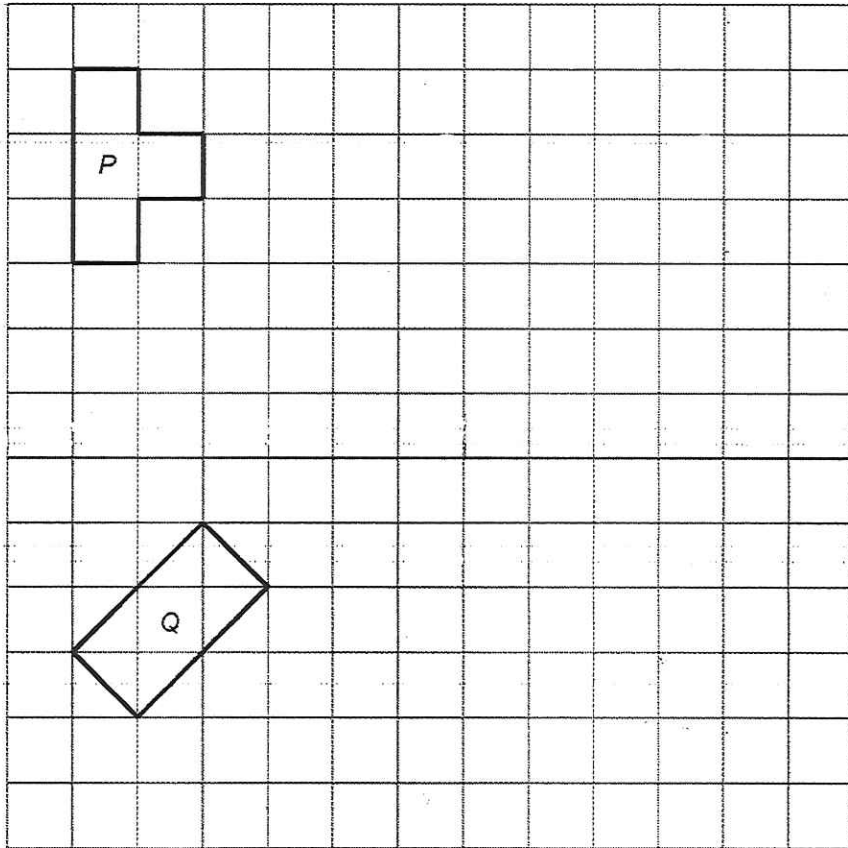
5.

Ceri does not know the difference between congruent and similar shapes.

(a) Draw

- a shape which is congruent to shape *P*, and
- a shape which is similar, but not congruent, to shape *Q*.

[2]

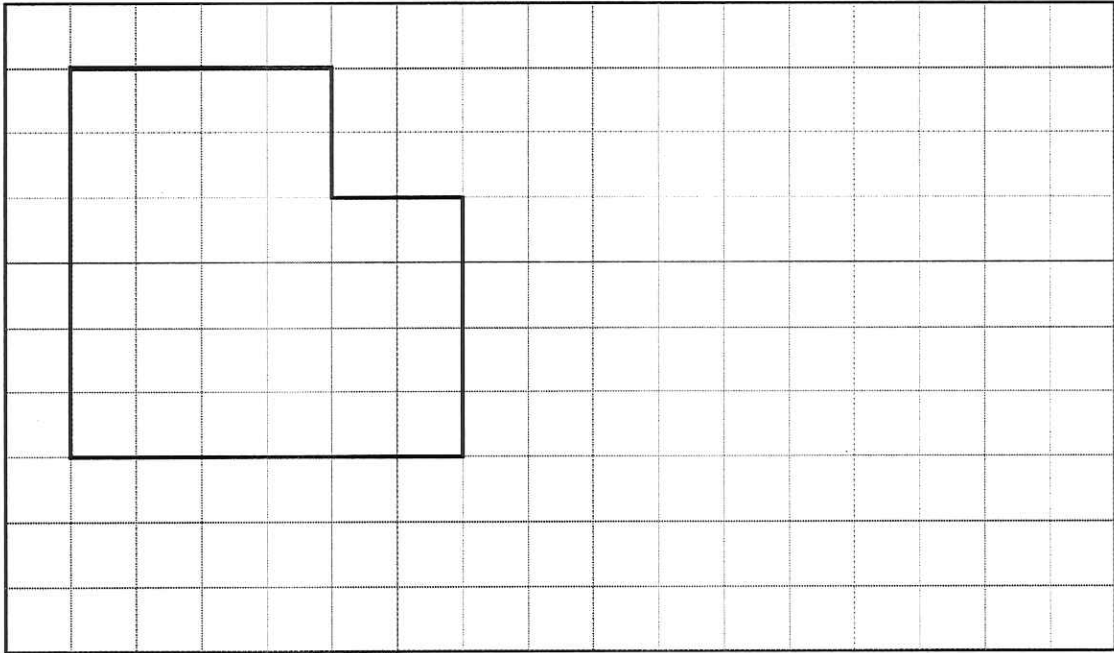


(b) Use your diagrams to explain to Ceri the difference between congruent and similar shapes. [2]

6.

(a) Draw a shape on the grid that is congruent to the shape given below.

[1]



(b) Draw a shape on the grid that is similar, but not congruent, to the shape given below.

[1]

