

Name: _____

Exam Style Questions

Congruent Shapes Similar Shapes



Equipment needed: Ruler, pencil and pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

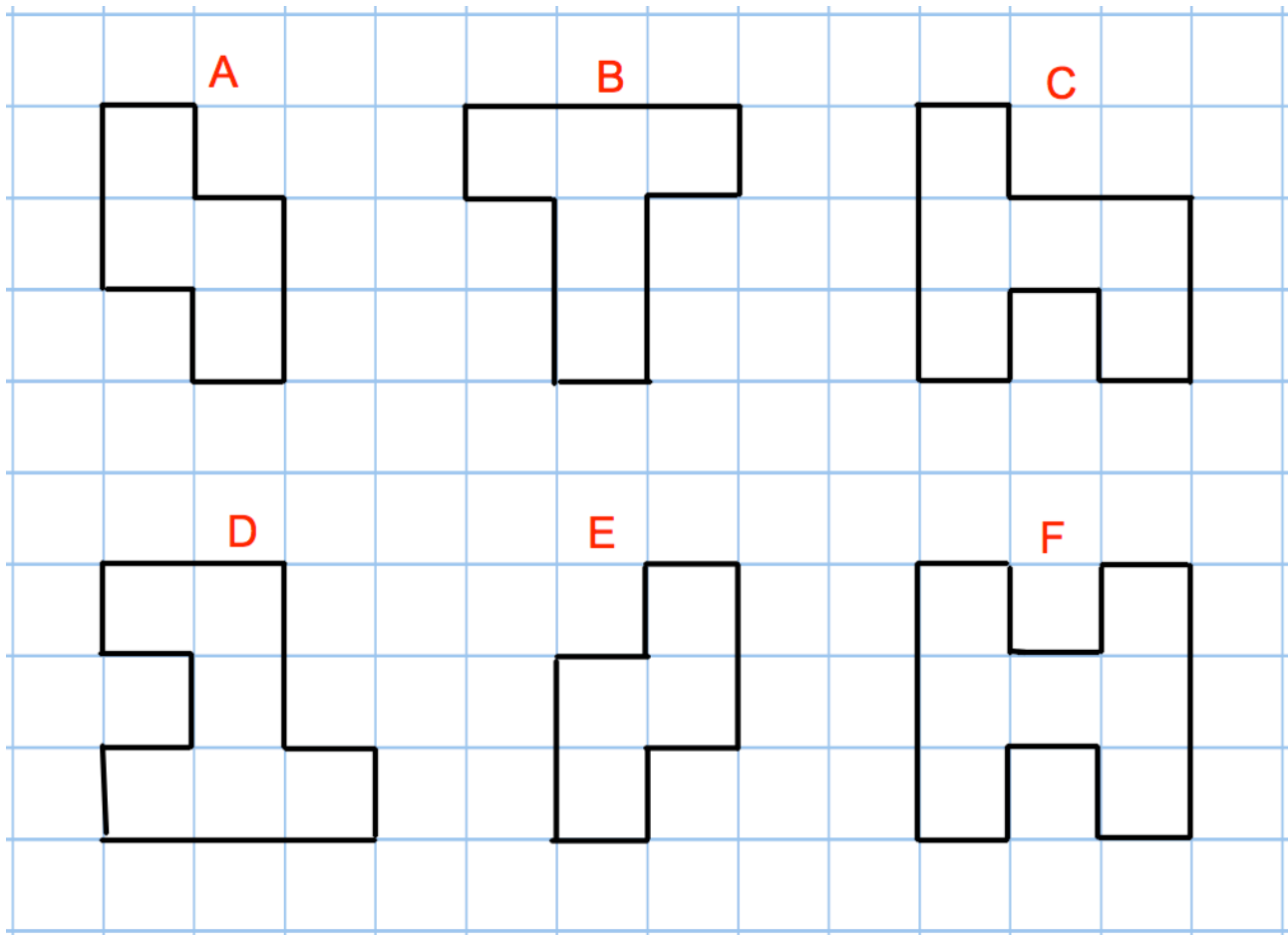
Videos 66, 291



Answers and Video Solutions



1. Here are six shapes.



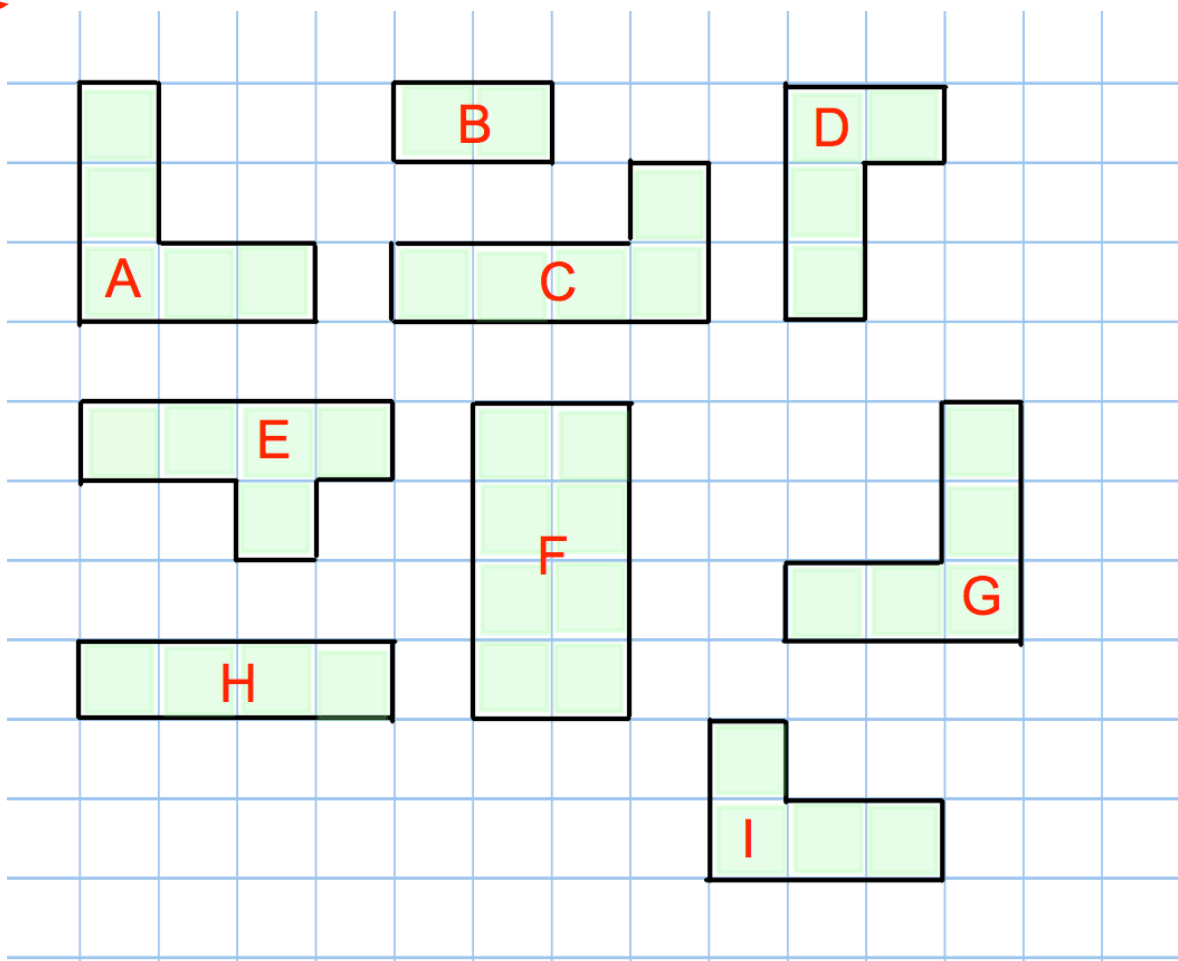
(a) Which shape is congruent to shape E?

.....
(1)

(b) Name two other congruent shapes.

..... and
(1)

2.



(a) Find a shape that is congruent to A.

.....
(1)

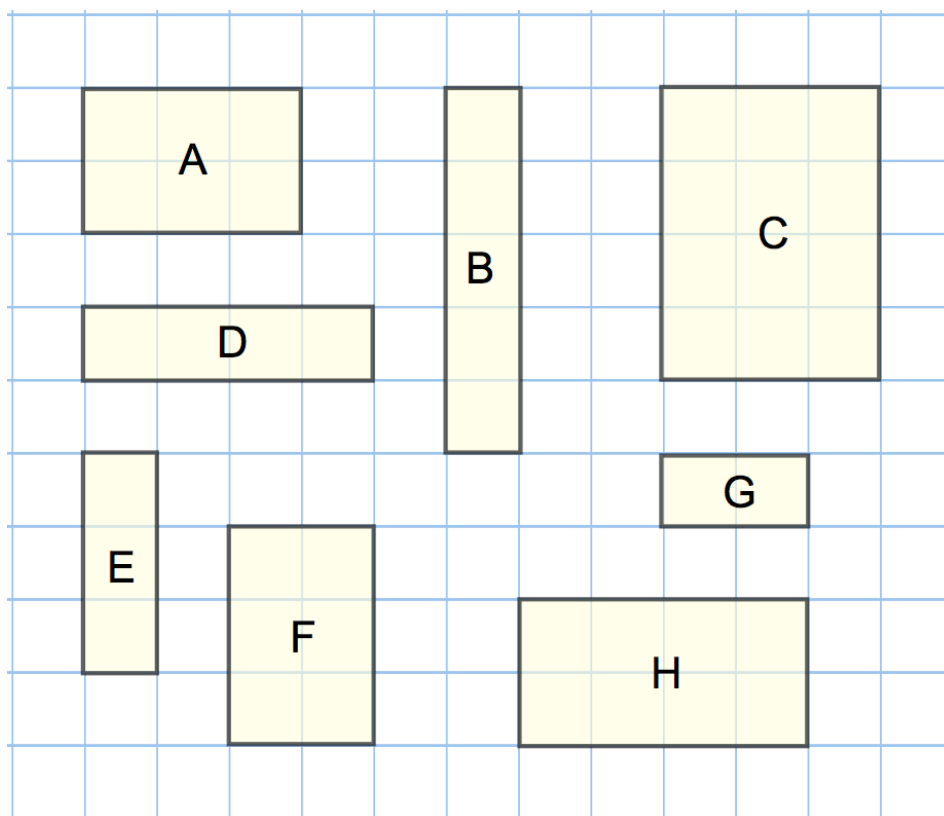
(b) Find another pair of congruent shapes.

..... and
(1)

(c) Find a shape that is mathematically similar to B.

.....
(1)

3. Here are some rectangles on a centimetre square grid.



(a) Find the area of rectangle C.

.....cm²
(1)

(b) Find the perimeter of rectangle B.

.....cm
(1)

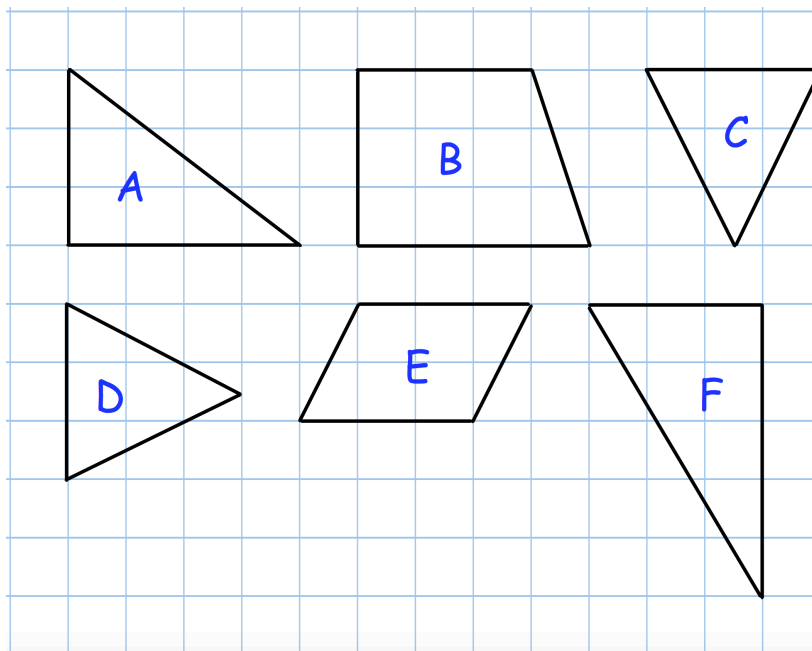
(c) Write down the names of the two rectangles that are congruent.

..... and
(1)

(d) Which rectangle is an enlargement of rectangle G?

.....
(1)

4. Shown below are 6 shapes.



(a) What type of triangle is shape A?
Circle the correct answer.

equilateral isosceles right angled

(1)

(b) Write down the name of shape B

.....
(1)

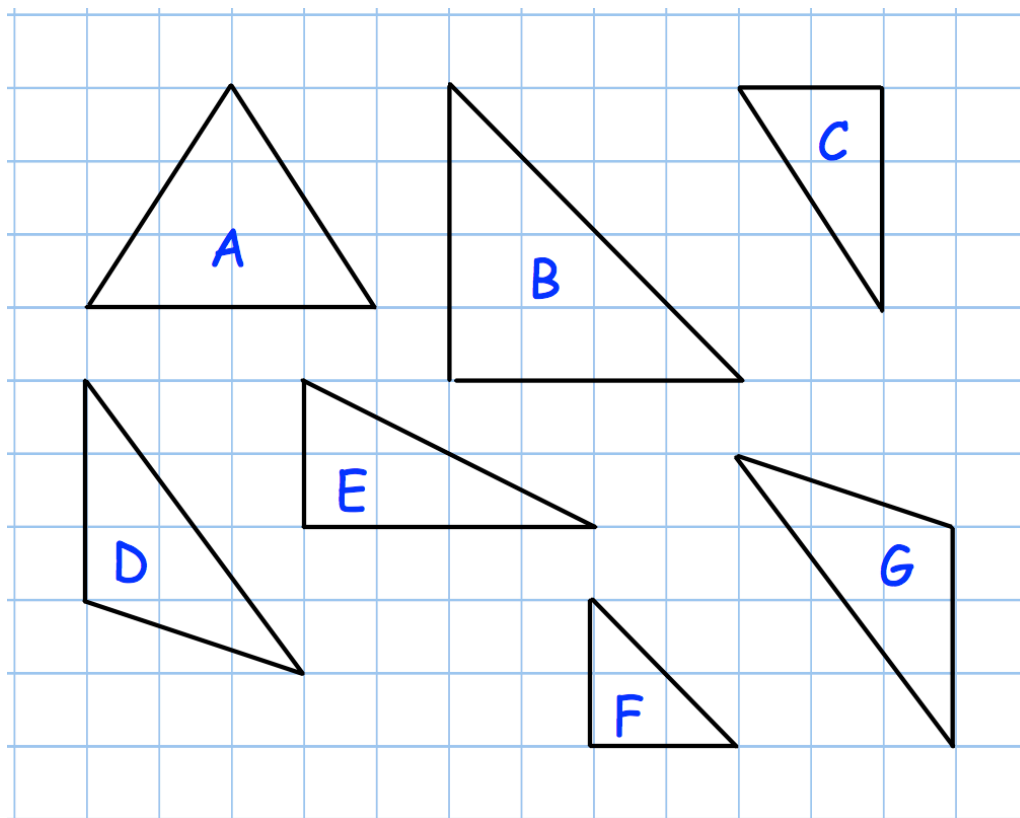
(c) Write down the name of shape E

.....
(1)

(d) Which two shapes are congruent.

..... and
(1)

5. Shown below are some triangles on a centimetre grid.



- (a) Write down the letters of the two triangles which are congruent.

..... and
(1)

Triangle B is an enlargement of triangle F.

- (b) Write down the scale factor of this enlargement.

.....
(1)

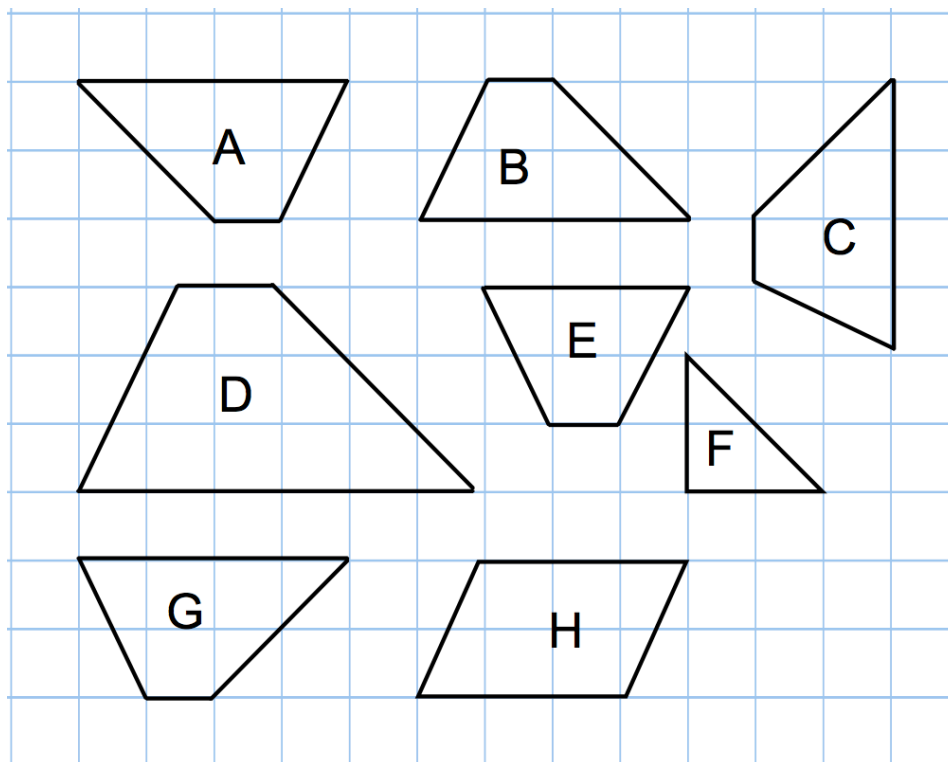
- (c) What kind of triangle is triangle A?

.....
(1)

- (d) What kind of triangle is triangle D?

.....
(1)

6. The grid shows eight shapes A, B, C, D, E, F, G and H.

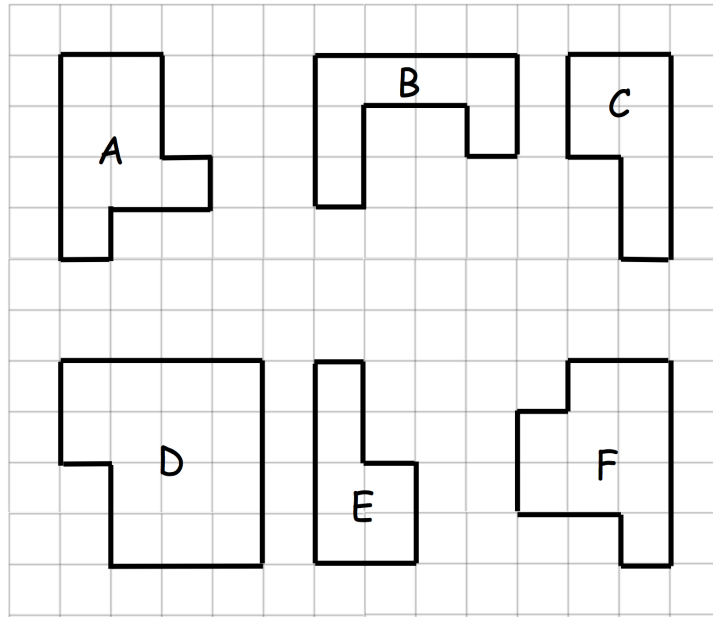


Write down the letters of the shapes which are congruent to shape A.

.....

(2)

7. Teagan draws six shapes on centimetre square paper.



(a) Which shape is congruent to shape C?

.....
(1)

(b) Which shape has the largest area?

.....
(1)

(c) Write down the perimeter of shape B.

.....cm
(1)

(d) Which two shapes fit together to make a square?

..... and
(1)

8. Triangles A and B are **similar**.



Tick the correct boxes.

| | True | False | Maybe |
|---|--------------------------|--------------------------|--------------------------|
| If Triangle A is isosceles, Triangle B has to be isosceles. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Triangles A and B have different size angles | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Triangle A has a larger area than Triangle B | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

(3)