

06/01/2026

Lesson Title: Identify congruent shapes.

Starter activity:

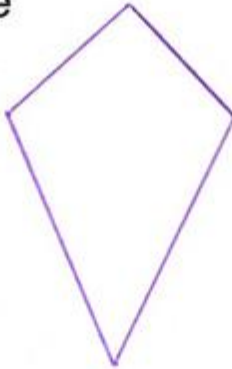
16 x 10	91 x 100
7.2 x 10	0.6 x 100
Draw a kite	Draw a parallelogram



06/01/2026

Lesson Title: Identify congruent shapes.

Starter activity:

16×10 160 7.2×10 72	91×100 9,100 0.6×100 60
Draw a kite e.g. 	Draw a parallelogram e.g. 



Why Learn this?



Identifying congruent shapes is a skill used in real jobs where accuracy matters. For example, a **carpenter** must check that two wooden pieces are exactly the same shape and size so they fit together properly, and an **engineer** needs matching components so parts of a machine line up and work safely. If shapes aren't congruent, things don't fit, wobble, or fail.



06/01/2026

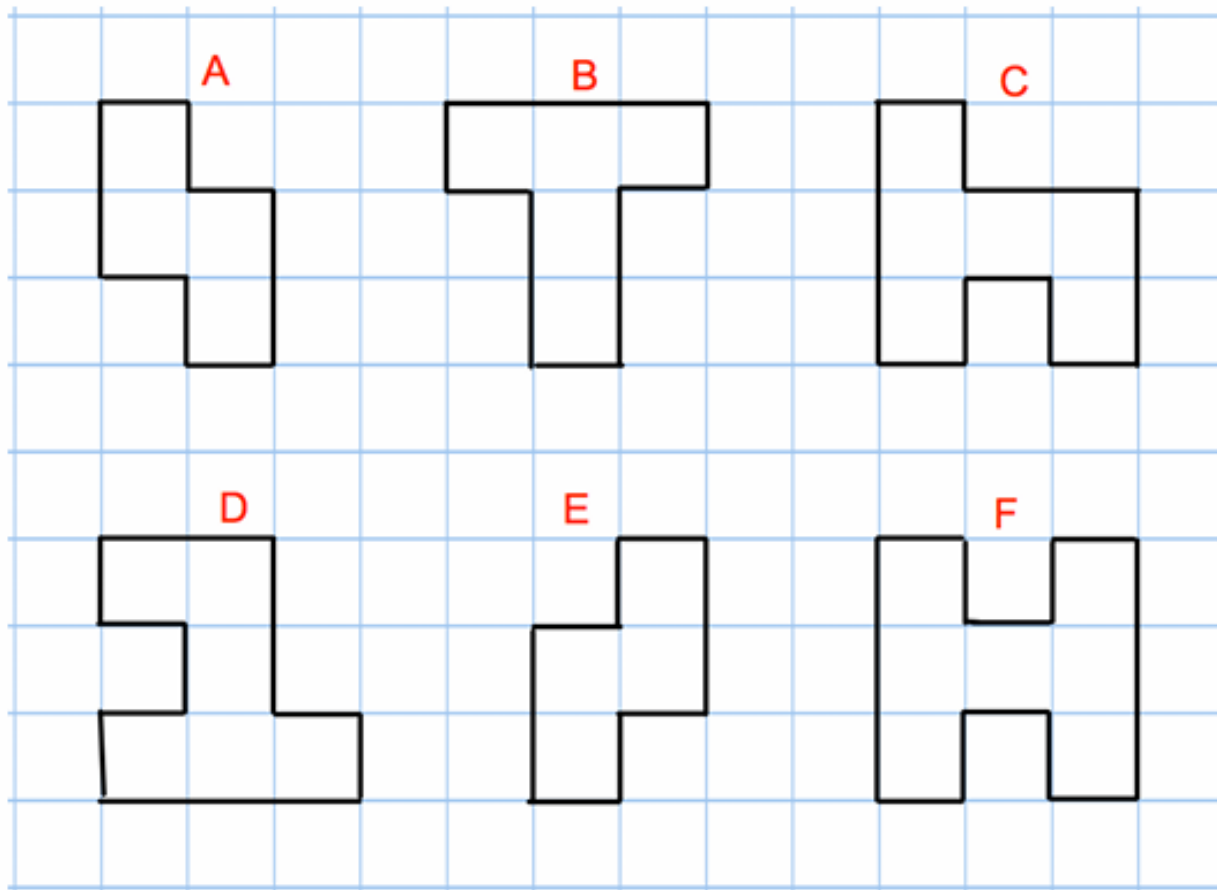
Keywords:

- ▶ **Congruent** - exactly the same shape *and* size
- ▶ **Corresponding** - matching sides or angles in each shape
- ▶ **Transformation** - a move (slide, turn, flip) that doesn't change size or shape



Modelling:

1. Here are six shapes.



(a) Which shape is congruent to shape E?

A
(1)

(b) Name two other congruent shapes.

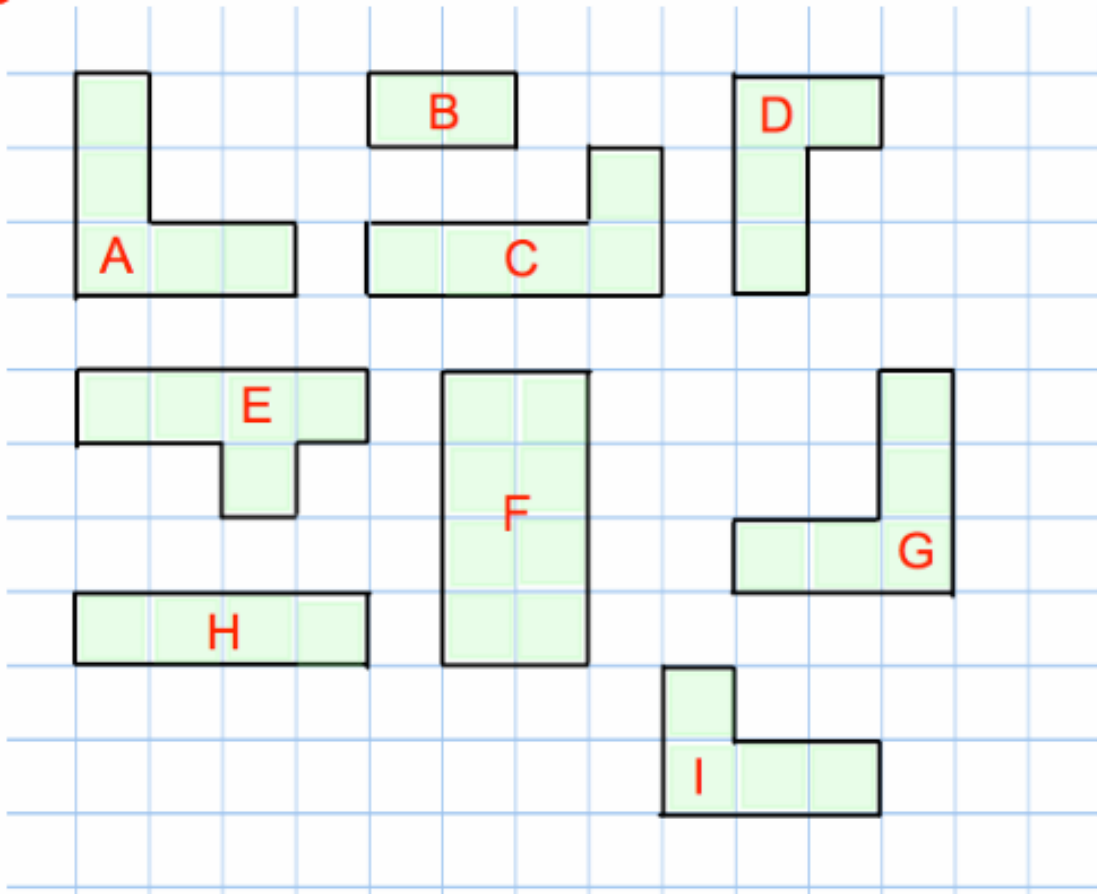
C and D
(1)



06/01/2026

Modelling:

2.



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

G
(1)

(b) Find another pair of congruent shapes.

D and I
(1)

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

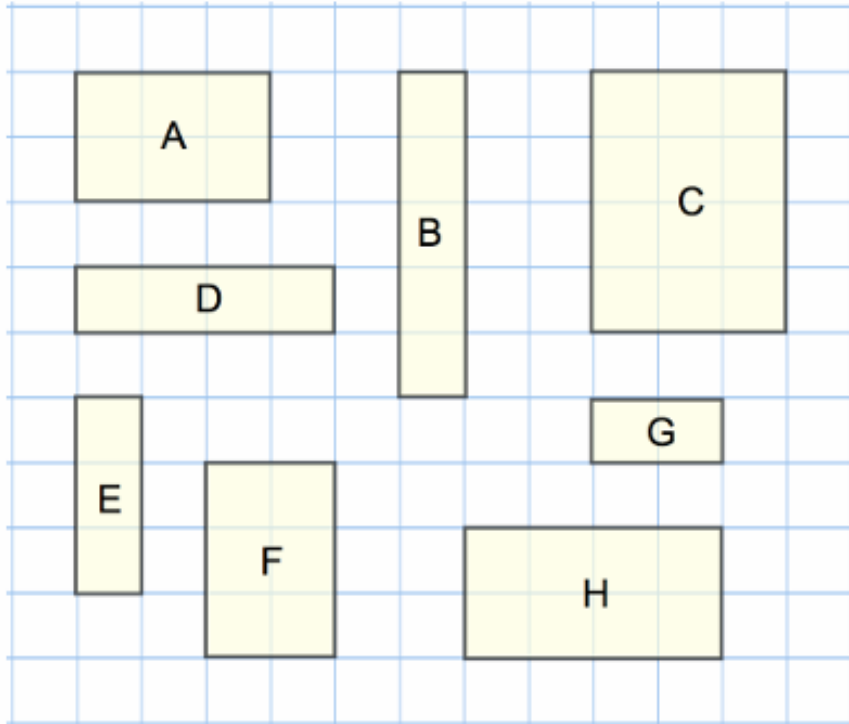
F
(1)



06/01/2026

Modelling:

Here are some rectangles on a centimetre square grid.



(a) Find the area of rectangle C.

.....12.....cm²
(1)

(b) Find the perimeter of rectangle B.

.....12.....cm
(1)

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

.....A..... and F.....
(1)

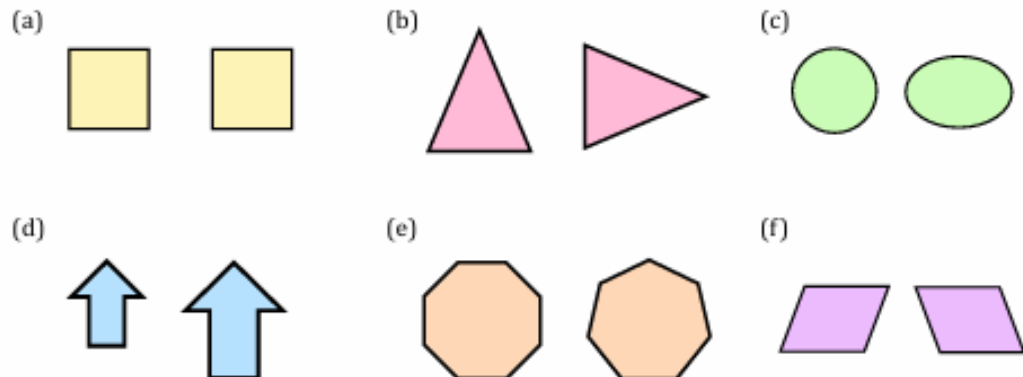
(d) Which rectangle is an enlargement of rectangle G?

.....H.....
(1)

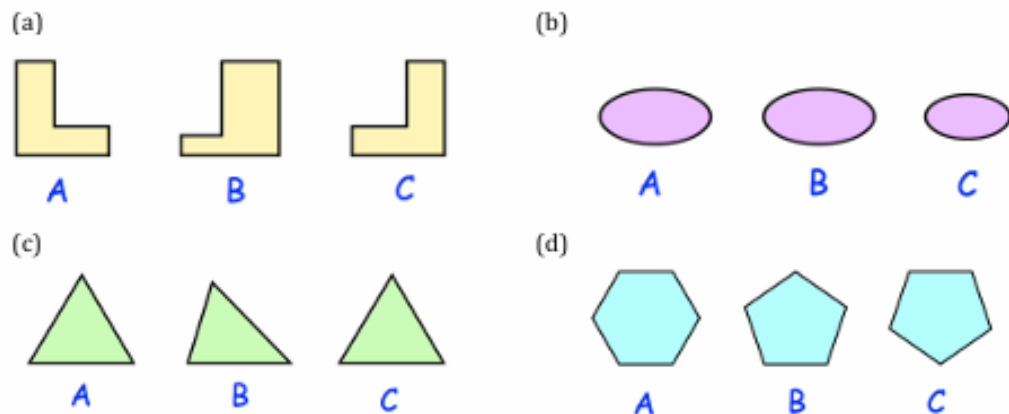


06/01/2026 Independent Practice:

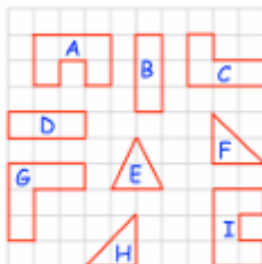
Question 1: For each pair of shapes, state whether they are congruent or not congruent



Question 2: Write down the shape that is not congruent to the others

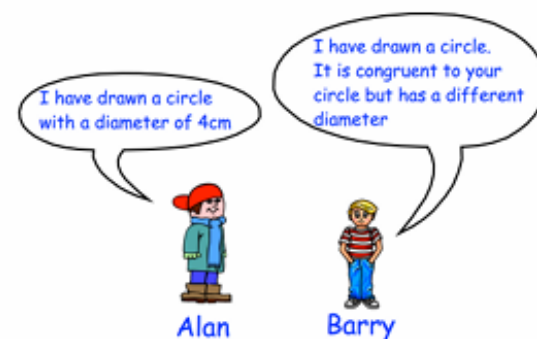


Question 3: Which pairs of shapes on the grid are congruent?



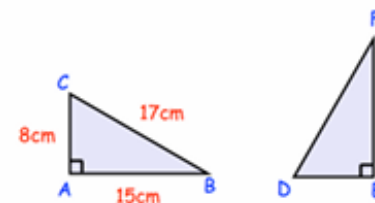
Apply

Question 1: Can Barry be correct? Explain your answer.



Question 2: Triangles ABC and DEF are congruent.

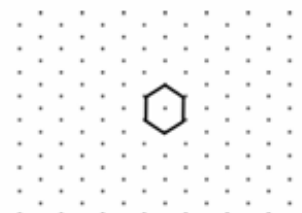
- (a) Write down the length of DF
- (b) Write down the length of AC
- (c) Write down the length of DE



Question 3: Triangles A and B are congruent. Tick the correct boxes.

	True	False	Maybe
If Triangle A is isosceles, Triangle B has to be isosceles.	☐	☐	☐
Triangles A and B have different size angles	☐	☐	☐
Triangle A has a larger area than Triangle B	☐	☐	☐

Question 4: A regular hexagon is drawn below. Draw at least 8 more congruent hexagons to show the hexagon tessellates.



06/01/2026 Independent Practice: Answers

Congruent Shapes

Workout

Question 1

- | | | |
|-------------------|-------------------|-------------------|
| (a) Congruent | (b) Congruent | (c) Not congruent |
| (d) Not congruent | (e) Not congruent | (f) Congruent |

Question 2

- | | | | |
|-------------|-------------|-------------|-------------|
| (a) Shape B | (b) Shape C | (c) Shape B | (d) Shape A |
|-------------|-------------|-------------|-------------|

Question 3

A & I, B & D, H & F

Apply

Question 1

No since the diameters is different, the circles will be different sizes therefore are not congruent.

Question 2

- (a) 17cm
- (b) 8cm
- (c) 8cm

Question 3

If Triangle A is isosceles, Triangle B has to be isosceles.

Triangles A and B have different size angles

Triangle A has a larger area than Triangle B

True	False	Maybe
☒	☐	☐
☐	☒	☐
☐	☒	☐

Question 4

