

Congruent

Syllabus tracker [Open it online](#)

Name: _____

Date: _____

Tick one circle for each statement — on screen (click) or with a pen. Then try the quick checks: write your answer in the box, check it against the answers at the end, and tick “right” when you got it. ★ = IGCSE Extended tier only.

Conditions for congruence

SSS, SAS, ASA and RHS.

	Don't know	Shaky	Got it
I can explain what congruent means.	☐	☐	☐
I can recognise the conditions for congruent triangles.	☐	☐	☐
I can tell which conditions do NOT prove congruence.	☐	☐	☐

Using congruence

Matching corresponding sides and angles.

	Don't know	Shaky	Got it
I can use congruence to find a missing length.	☐	☐	☐
I can use congruence to find a missing angle.	☐	☐	☐

Quick checks

One quick question per statement. Answer in the box, then check the answers at the end.

1. Congruent shapes are...

A exactly the same shape and size **B** the same shape but any size **C** the same area **D** the same perimeter

Answer: _____ ☐ I got it right

2. Two triangles have two pairs of equal sides and equal angles between them. Which condition is this?

A SAS **B** SSS **C** ASA **D** RHS

Answer: _____ ☐ I got it right

3. Which of these does NOT prove that two triangles are congruent?

A AAA **B** SSS **C** SAS **D** RHS

Answer: _____ ☐ I got it right

4. Triangles ABC and PQR are congruent with $A \leftrightarrow P$, $B \leftrightarrow Q$, $C \leftrightarrow R$. $AB = 7$ cm and $BC = 9$ cm. Find QR in cm.

Answer: _____ ☐ I got it right

5. Triangles ABC and PQR are congruent with $A \leftrightarrow P$, $B \leftrightarrow Q$, $C \leftrightarrow R$. Angle B = 48° . Find angle Q.

Answer: _____ ☐ I got it right

Answers

Try every question first, then check.

- | | |
|---------------------------------------|-------|
| 1. A: exactly the same shape and size | 4. 9 |
| 2. A: SAS | 5. 48 |
| 3. A: AAA | |