



Determine corresponding sides and angles in similar figures

1

neither similar nor congruent

A All angles and side lengths are identical

B One or more angles are different

2

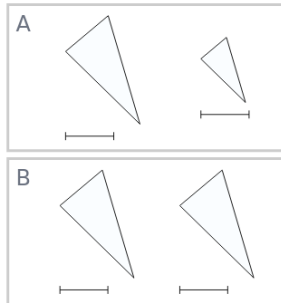
One or more angles are different

A neither similar nor congruent

B similar

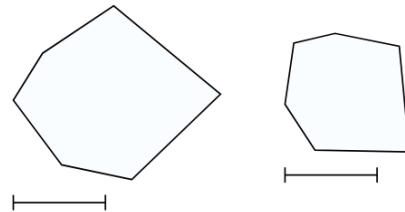
3

congruent



4

Are these shapes congruent?

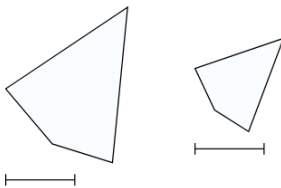


A No

B Yes

5

What is the most accurate description of these shapes?

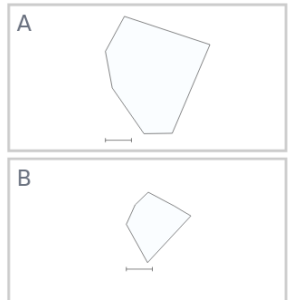
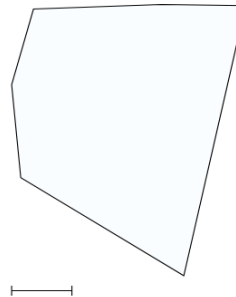


A All angles are identical

B One or more angles are different

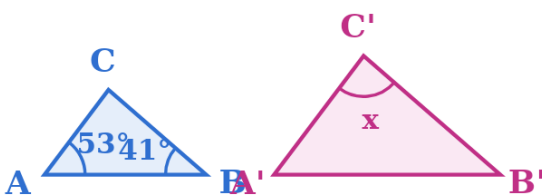
6

Which image is similar to this shape?



7

Triangle ABC is similar to triangle A'B'C'. What is the value of x (in degrees)?



A 53°

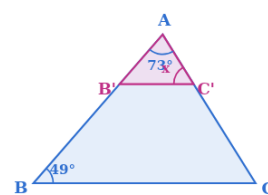
B 41°

C 86°

D 94°

8

Triangle AB'C' is similar to triangle ABC. What is the value of x (in degrees)?



A 122°

B 73°

C 58°

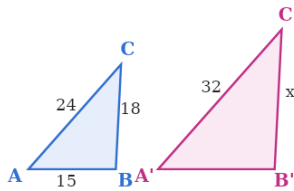
D 49°



Determine corresponding sides and angles in similar figures

9

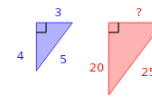
Triangle ABC is similar to triangle A'B'C'. What is the value of x (in centimetres)?



- | | | | |
|---------|---------|---------|---------|
| A 26 cm | B 14 cm | C 24 cm | D 18 cm |
|---------|---------|---------|---------|

10

Find the length of the missing side given that these are similar triangles

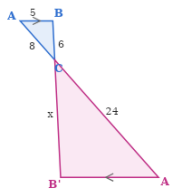


(not to scale)

- | | | |
|------|------|------|
| A 20 | B 9 | C 15 |
| D 7 | E 18 | F 19 |

11

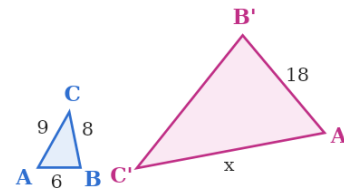
Triangle ABC is similar to triangle A'B'C'. What is the value of x (in centimetres)?



- | | | | |
|---------|---------|--------|--------|
| A 22 cm | B 18 cm | C 2 cm | D 6 cm |
|---------|---------|--------|--------|

12

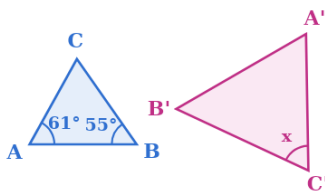
Triangle ABC is similar to triangle A'B'C'. What is the value of x (in centimetres)?



- | | | | |
|--------|---------|---------|--------|
| A 3 cm | B 27 cm | C 21 cm | D 9 cm |
|--------|---------|---------|--------|

13

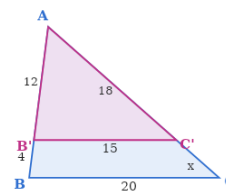
Triangle ABC is similar to triangle A'B'C'. What is the value of x (in degrees)?



- | | | | |
|--------|-------|-------|-------|
| A 116° | B 61° | C 55° | D 64° |
|--------|-------|-------|-------|

14

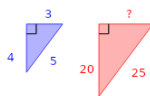
Triangle AB'C' is similar to triangle ABC. What is the value of x (in centimetres)?



- | | | | |
|--------|--------|---------|--------|
| A 5 cm | B 6 cm | C 18 cm | D 4 cm |
|--------|--------|---------|--------|

15

Find the length of the missing side given that these are similar triangles



(not to scale)

- | | | |
|------|------|------|
| A 19 | B 14 | C 5 |
| D 15 | E 17 | F 23 |

16

Find the length of the missing side given that these are similar triangles



(not to scale)

- | | | |
|------|------|-------|
| A 19 | B 47 | C 75 |
| D 26 | E 5 | F 138 |