Name

# Identify similar figures

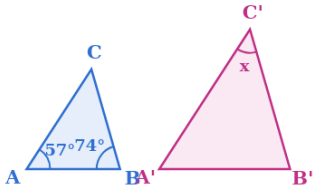
**1**

neither similar nor congruent

| A | B |
|---|---|
| All angles and side lengths are identical | One or more angles are different |

**2**

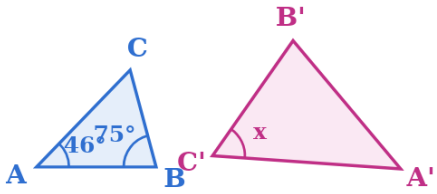
Triangle ABC is similar to triangle A'B'C'. What is the value of x (in degrees)?




| A | B | C | D |
|---|---|---|---|
| 131° | 74° | 49° | 57° |

**3**

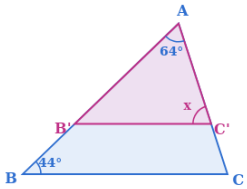
Triangle ABC is similar to triangle A'B'C'. What is the value of x (in degrees)?




| A | B | C | D |
|---|---|---|---|
| 121° | 75° | 46° | 59° |

**4**

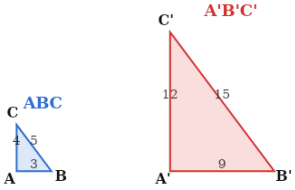
Triangle AB'C' is similar to triangle ABC. What is the value of x (in degrees)?




| A | B | C | D |
|---|---|---|---|
| 108° | 72° | 44° | 64° |

**5**

What is the scale factor of the dilation from triangle ABC to triangle A'B'C'?




| A | B | C | D |
|---|---|---|---|
| 3 | 2 | 1/3 | 1/2 |

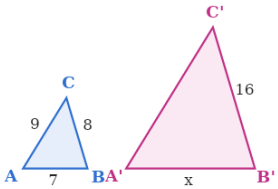
**6**

One or more angles are different

| A | B |
|---|---|
| congruent | neither similar nor congruent |

**7**

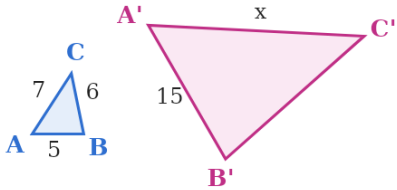
Triangle ABC is similar to triangle A'B'C'. What is the value of x (in centimetres)?




| A | B | C | D |
|---|---|---|---|
| 7 cm | 4 cm | 14 cm | 15 cm |

**8**

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

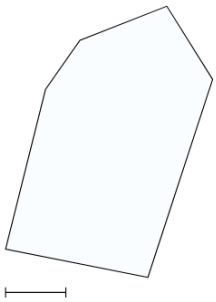



| A | B | C | D |
|---|---|---|---|
| 2 cm | 17 cm | 21 cm | 7 cm |

Name

# Identify similar figures

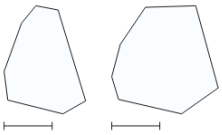
**9**
Which image is similar to this shape?

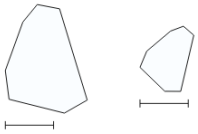


A

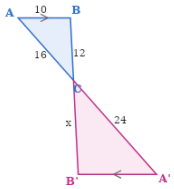

B


**10**
similar

A


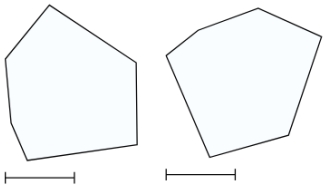
B


**11**
Triangle ABC is similar to triangle A'B'C'. What is the value of x (in centimetres)?



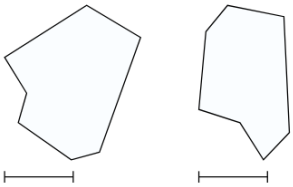

| A | B | C | D |
|---|---|---|---|
| 8 cm | 20 cm | 18 cm | 12 cm |

**12**
What is the best property to describe these shapes?



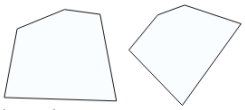
| A | B |
|---|---|
| congruent | neither similar nor congruent |

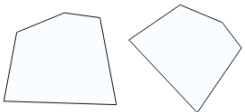
**13**
What is the most accurate description of these shapes?



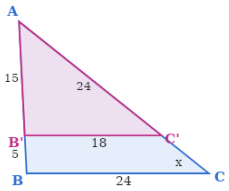
| A | B |
|---|---|
| All angles are identical | One or more angles are different |

**14**
One or more angles are different

A


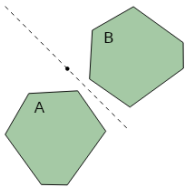
B


**15**
Triangle AB'C' is similar to triangle ABC. What is the value of x (in centimetres)?




| A | B | C | D |
|---|---|---|---|
| 24 cm | 8 cm | 6 cm | 5 cm |

**16**
Is the transformation of shape A into shape B a Dilation?




| A | B |
|---|---|
| Not a Dilation | Dilation |