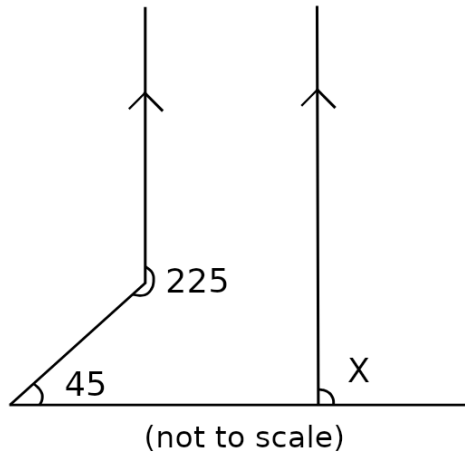




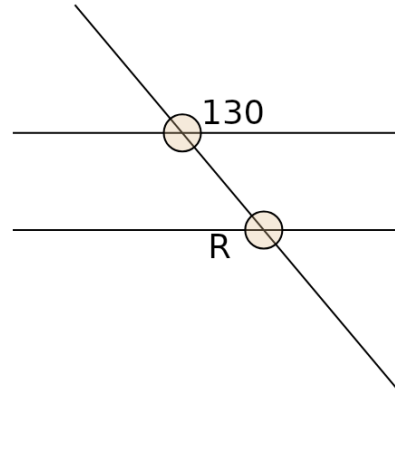
Geometry and Similarity

1 What is angle X?



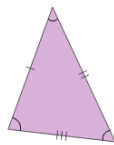
A 75	B 110	C 80
D 85	E 90	

2 What do we know about angle 'R'?



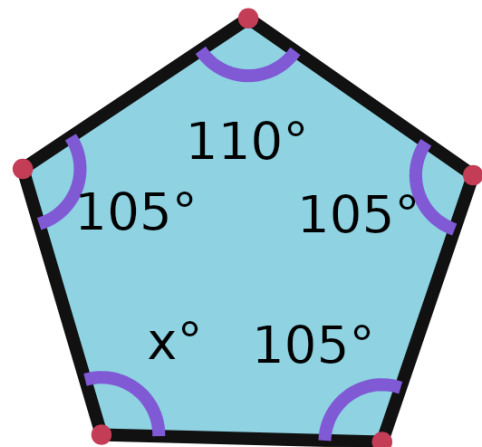
A 140	B 130	C 50
D 90	E 60	F 40

3 What would the sum of the inside angles on this shape be?



A 300°	B 210°	C 360°
D 270°	E 180°	F 120°

4 What is the missing interior angle?

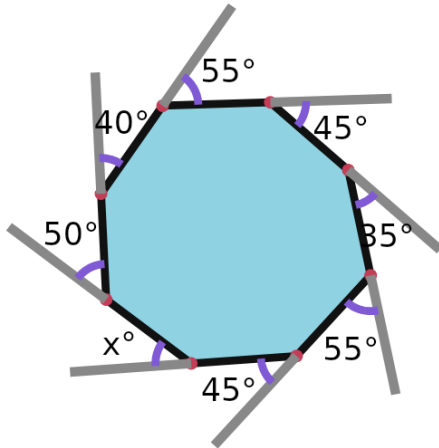


A 115°	B 175°	C 75°
D 135°	E 55°	F 95°



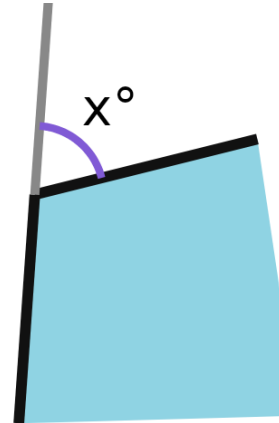
Geometry and Similarity

5 What is the missing exterior angle?



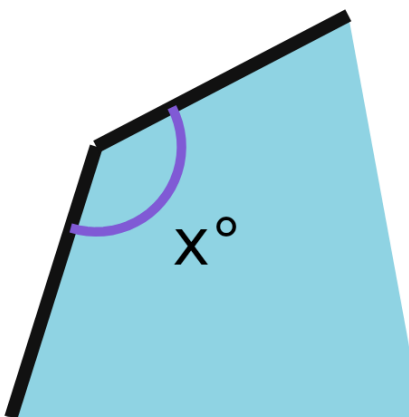
A 95°	B 35°	C 75°
D 55°	E 15°	

6 This is a regular pentagon. What is the exterior angle?



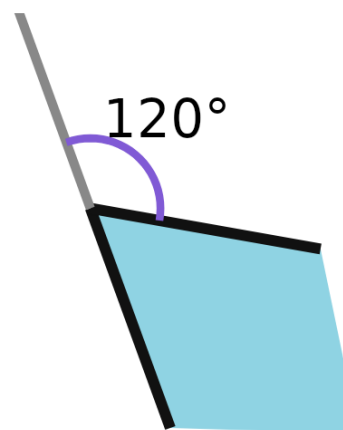
A 72°	B 120°	C 60°
D 90°	E 45°	

7 This is a regular octagon. What is the interior angle?



A 108°	B 135°	C 60°
D 120°	E 90°	

8 This is the 120° exterior angle of a regular polygon. What type of polygon is it?

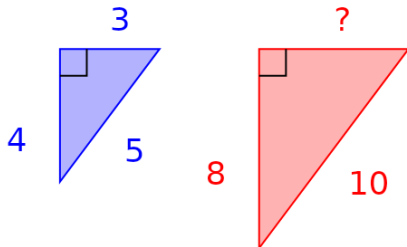


A Pentagon	B Quadrilateral	C Triangle
D Octagon	E Hexagon	



Geometry and Similarity

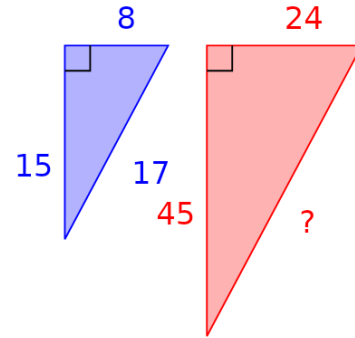
- 9** Find the length of the missing side given that these are similar triangles



(not to scale)

A	13	B	15	C	6
D	5	E	2	F	1

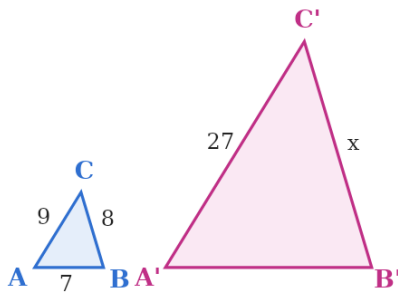
- 10** Find the length of the missing side given that these are similar triangles



(not to scale)

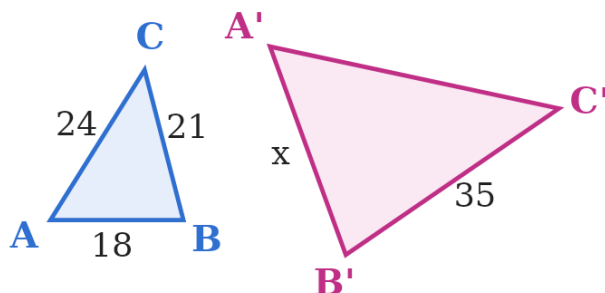
A	36	B	91	C	16
D	46	E	61	F	51

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



A	24 cm
B	3 cm
C	26 cm
D	8 cm

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

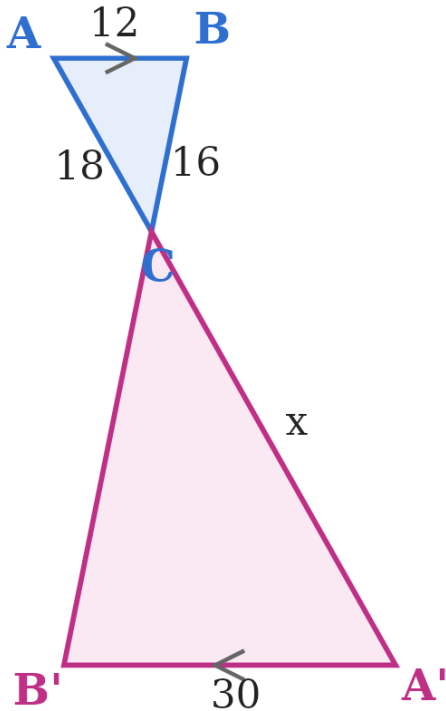


A	30 cm
B	32 cm
C	18 cm
D	11 cm



Geometry and Similarity

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



A

7 cm

B

36 cm

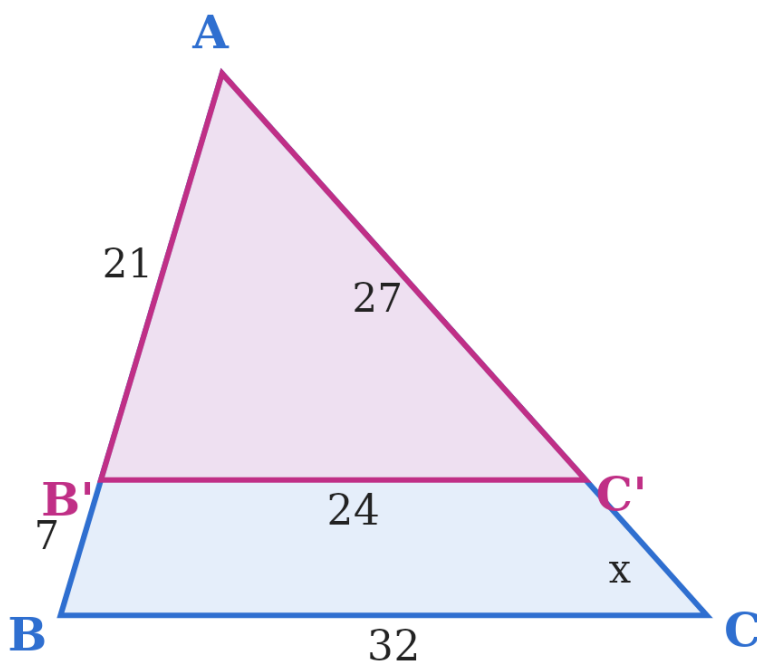
C

18 cm

D

45 cm

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



A

7 cm

B

27 cm

C

9 cm

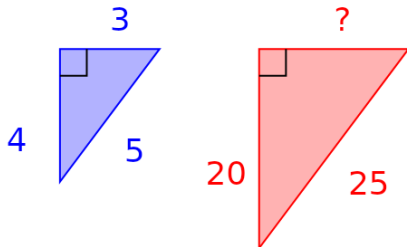
D

8 cm



Geometry and Similarity

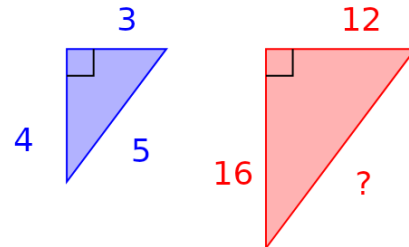
15 Find the length of the missing side given that these are similar triangles



(not to scale)

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

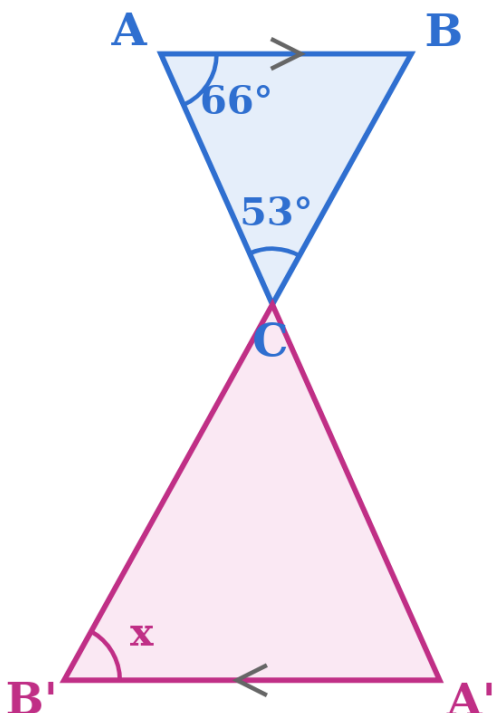
16 Find the length of the missing side given that these are similar triangles



(not to scale)

A	24	B	30	C	8
D	20	E	28	F	12

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

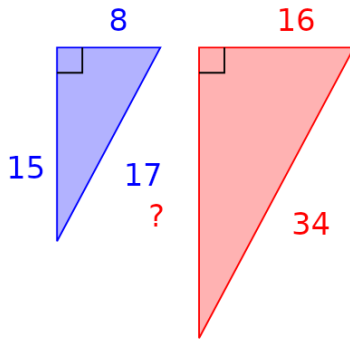


A	53°
B	66°
C	119°
D	61°



Geometry and Similarity

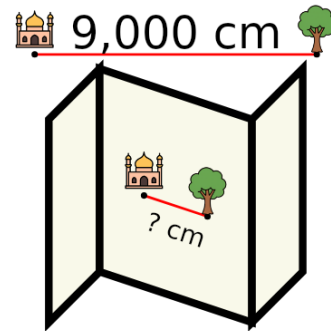
- 18** Find the length of the missing side given that these are similar triangles



(not to scale)

A	45	B	30	C	6
D	21	E	51	F	18

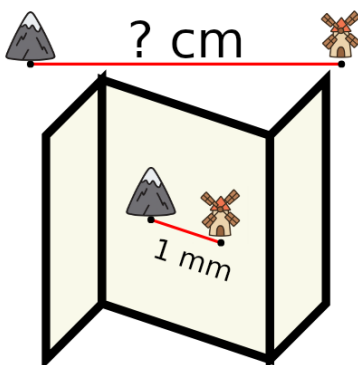
- 19** The map has a scale of 1:9,000. How many centimeters on the map would represent 9,000 cm?



Scale: 1:9,000

A	10 cm	B	0.1 cm	C	1 cm
D	100 cm	E	0.001 cm		

- 20** The map has a scale of 1:400. How many centimeters would 1 mm on the map represent?



Scale: 1:400

A	40,000 cm	B	4 cm	C	40 cm
D	4,000 cm	E	400 cm	F	0.4 cm