Unique Triangles: One, Many or No Triangle · 1

Side lengths 10 cm, 6 cm, 6 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 2

Angles 15°, 70° and 95°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 3

Angles 30°, 30° and 130°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 4

Side lengths 2 cm, 4 cm, 10 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 5

Side lengths 7 cm, 4 cm, 15 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 6

Side lengths 16 cm, 8 cm, 4 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 7

Angles 60°, 60° and 60°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 8

Side lengths 16 cm, 7 cm, 6 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 2

**ANSWER**

# many

Unique Triangles: One, Many or No Triangle · 1

**ANSWER**

# one

Unique Triangles: One, Many or No Triangle · 4

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 3

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 6

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 5

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 8

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 7

**ANSWER**

# many

Unique Triangles: One, Many or No Triangle · 9

Angles 20°, 55° and 110°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 10

Side lengths 8 cm, 4 cm, 6 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 11

Angles 50°, 45° and 80°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 12

Angles 45°, 20° and 105°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 13

Side lengths 9 cm, 8 cm, 5 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 14

Angles 50°, 30° and 110°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 15

Angles 30°, 15° and 140°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 16

Angles 50°, 35° and 95°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 10

**ANSWER**

# one

Unique Triangles: One, Many or No Triangle · 9

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 12

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 11

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 14

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 13

**ANSWER**

# one

Unique Triangles: One, Many or No Triangle · 16

**ANSWER**

# many

Unique Triangles: One, Many or No Triangle · 15

**ANSWER**

# none

Angles 50°, 20° and 110°. One triangle, many, or none?



Angles 35°, 75° and 65°. One triangle, many, or none?



Two sides of 10 cm and 7 cm with a 125° angle between them. One triangle, many, or none?



Angles 35°, 65° and 80°. One triangle, many, or none?



Angles of 20° and 45° with a 12 cm side between them. One triangle, many, or none?



Side lengths 9 cm, 7 cm, 18 cm. One triangle, many, or none?



Two sides of a triangle are 13 cm and 14 cm. The third side is a whole number of cm. What is the longest it can be?



Angles 15°, 75° and 80°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 18

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 17

**ANSWER**

# many

Unique Triangles: One, Many or No Triangle · 20

**ANSWER**

# many

Unique Triangles: One, Many or No Triangle · 19

**ANSWER**

# one

Unique Triangles: One, Many or No Triangle · 22

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 21

**ANSWER**

# one

Unique Triangles: One, Many or No Triangle · 24

**ANSWER**

# none

Unique Triangles: One, Many or No Triangle · 23

**ANSWER**

# 26