Unique Triangles: One, Many or No Triangle · 1

Two sides of a triangle are 11 cm and 14 cm. The third side is a whole number of cm. What is the shortest it can be?

Unique Triangles: One, Many or No Triangle · 2

Angles 30°, 70° and 70°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 3

Angles 20°, 70° and 100°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 4

Two sides of 12 cm and 7 cm with a 60° angle between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 5

Two sides of 12 cm and 3 cm with a 115° angle between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 6

Angles 60°, 15° and 105°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 7

Two sides of 8 cm and 6 cm with a 110° angle between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 8

Angles of 40° and 90° with an 8 cm side between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 2

ANSWER

none

Unique Triangles: One, Many or No Triangle · 1

ANSWER

4

Unique Triangles: One, Many or No Triangle · 4

ANSWER

one

Unique Triangles: One, Many or No Triangle · 3

ANSWER

none

Unique Triangles: One, Many or No Triangle · 6

ANSWER

many

Unique Triangles: One, Many or No Triangle · 5

ANSWER

one

Unique Triangles: One, Many or No Triangle · 8

ANSWER

one

Unique Triangles: One, Many or No Triangle · 7

ANSWER

one

Two sides of a triangle are 9 cm and 7 cm. The third side is a whole number of cm. What is the shortest it can be?

Two sides of a triangle are 9 cm and 8 cm. The third side is a whole number of cm. What is the shortest it can be?

Angles 30°, 60° and 90°. One triangle, many, or none?

Two sides of a triangle are 15 cm and 5 cm. The third side is a whole number of cm. What is the shortest it can be?

Two sides of a triangle are 8 cm and 6 cm. The third side is a whole number of cm. What is the shortest it can be?

Two sides of a triangle are 11 cm and 12 cm. The third side is a whole number of cm. What is the shortest it can be?

Two sides of a triangle are 12 cm and 8 cm. The third side is a whole number of cm. What is the shortest it can be?

Two sides of a triangle are 10 cm and 11 cm. The third side is a whole number of cm. What is the longest it can be?

Unique Triangles: One, Many or No Triangle · 10

ANSWER

2

Unique Triangles: One, Many or No Triangle · 9

ANSWER

3

Unique Triangles: One, Many or No Triangle · 12

ANSWER

11

Unique Triangles: One, Many or No Triangle · 11

ANSWER

many

Unique Triangles: One, Many or No Triangle · 14

ANSWER

2

Unique Triangles: One, Many or No Triangle · 13

ANSWER

3

Unique Triangles: One, Many or No Triangle · 16

ANSWER

20

Unique Triangles: One, Many or No Triangle · 15

ANSWER

5

Unique Triangles: One, Many or No Triangle · 17

Angles 60°, 20° and 95°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 18

Angles 25°, 50° and 100°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 19

Angles 15°, 50° and 125°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 20

Two sides of 10 cm and 3 cm with a 130° angle between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 21

Two sides of a triangle are 8 cm and 13 cm. The third side is a whole number of cm. What is the longest it can be?

Unique Triangles: One, Many or No Triangle · 22

Angles of 90° and 45° with a 6 cm side between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 23

Side lengths 4 cm, 2 cm, 3 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 24

Angles 45°, 25° and 110°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 18

ANSWER

none

Unique Triangles: One, Many or No Triangle · 17

ANSWER

none

Unique Triangles: One, Many or No Triangle · 20

ANSWER

one

Unique Triangles: One, Many or No Triangle · 19

ANSWER

none

Unique Triangles: One, Many or No Triangle · 22

ANSWER

one

Unique Triangles: One, Many or No Triangle · 21

ANSWER

20

Unique Triangles: One, Many or No Triangle · 24

ANSWER

many

Unique Triangles: One, Many or No Triangle · 23

ANSWER

one