Unique Triangles: One, Many or No Triangle · 1

Two sides of 6 cm and 10 cm with a 130° angle between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 2

Angles of 50° and 70° with a 12 cm side between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 3

Two sides of a triangle are 5 cm and 10 cm. The third side is a whole number of cm. What is the longest it can be?

Unique Triangles: One, Many or No Triangle · 4

Angles 30°, 75° and 75°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 5

Angles 20°, 20° and 140°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 6

Angles of 100° and 50° with a 4 cm side between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 7

Angles of 100° and 65° with a 4 cm side between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 8

Two sides of 8 cm and 4 cm with a 30° angle between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 2

ANSWER

one

Unique Triangles: One, Many or No Triangle · 1

ANSWER

one

Unique Triangles: One, Many or No Triangle · 4

ANSWER

many

Unique Triangles: One, Many or No Triangle · 3

ANSWER

14

Unique Triangles: One, Many or No Triangle · 6

ANSWER

one

Unique Triangles: One, Many or No Triangle · 5

ANSWER

many

Unique Triangles: One, Many or No Triangle · 8

ANSWER

one

Unique Triangles: One, Many or No Triangle · 7

ANSWER

one

Unique Triangles: One, Many or No Triangle · 9

Two sides of 6 cm and 9 cm with a 135° angle between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 10

Angles of 50° and 90° with an 8 cm side between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 11

Two sides of 9 cm and 8 cm with a 130° angle between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 12

Side lengths 6 cm, 2 cm, 6 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 13

Two sides of a triangle are 3 cm and 15 cm. The third side is a whole number of cm. What is the longest it can be?

Unique Triangles: One, Many or No Triangle · 14

Angles of 45° and 90° with a 7 cm side between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 15

Angles of 45° and 105° with a 12 cm side between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 16

Side lengths 5 cm, 2 cm, 4 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 10

ANSWER

one

Unique Triangles: One, Many or No Triangle · 9

ANSWER

one

Unique Triangles: One, Many or No Triangle · 12

ANSWER

one

Unique Triangles: One, Many or No Triangle · 11

ANSWER

one

Unique Triangles: One, Many or No Triangle · 14

ANSWER

one

Unique Triangles: One, Many or No Triangle · 13

ANSWER

17

Unique Triangles: One, Many or No Triangle · 16

ANSWER

one

Unique Triangles: One, Many or No Triangle · 15

ANSWER

one

Unique Triangles: One, Many or No Triangle · 17

Angles 55°, 60° and 55°. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 18

Angles of 30° and 95° with a 7 cm side between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 19

Two sides of 3 cm and 6 cm with a 25° angle between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 20

Two sides of 5 cm and 9 cm with a 140° angle between them. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 21

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

Unique Triangles: One, Many or No Triangle · 22

Two sides of a triangle are 11 cm and 15 cm. The third side is a whole number of cm. What is the shortest it can be?

Unique Triangles: One, Many or No Triangle · 23

Two sides of a triangle are 9 cm and 15 cm. The third side is a whole number of cm. What is the longest it can be?

Unique Triangles: One, Many or No Triangle · 24

Side lengths 8 cm, 8 cm, 7 cm. One triangle, many, or none?

Unique Triangles: One, Many or No Triangle · 18

ANSWER

one

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

one

Unique Triangles: One, Many or No Triangle · 22

ANSWER

5

Unique Triangles: One, Many or No Triangle · 21

ANSWER

many

Unique Triangles: One, Many or No Triangle · 24

ANSWER

one

Unique Triangles: One, Many or No Triangle · 23

ANSWER

23