

Name:

Exam Style Questions

Triangles: Lengths of Sides



Equipment needed: Pen and Calculator

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 327a



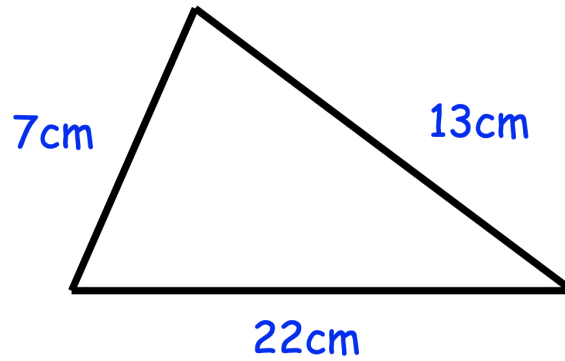
Answers and Video Solutions



1. Mollie has drawn the following triangle.



Not drawn accurately



Explain why she must have made a mistake.

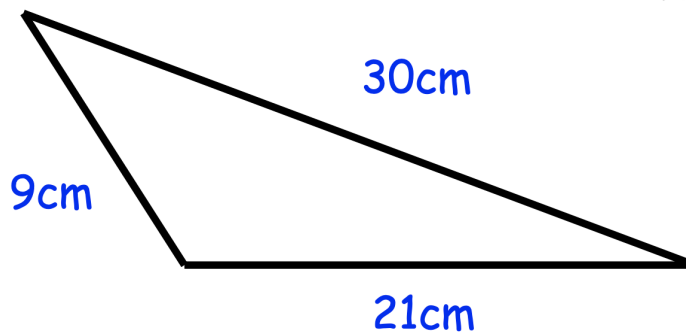
.....
.....

(1)

2. Kaiden has drawn the following triangle.



Not drawn accurately



Explain why he must have made a mistake.

.....
.....

(1)

3. The lengths of the two shorter sides of a triangle are 10cm and 14cm.



Which of the following could be the length of the largest side?
Circle the correct answer.

25cm

13cm

30cm

21cm

(1)

4. The lengths of the two sides of a triangle are 50cm and 30cm



Which of the following could be the length of the third side?
Circle the correct answer.

20cm

75cm

15cm

80cm

(1)

5. The lengths of the two sides of a triangle are 7.5cm and 8.1cm



Which of the following could **not** be the length of the third side?
Circle the correct answer.

0.5cm

15.2cm

1cm

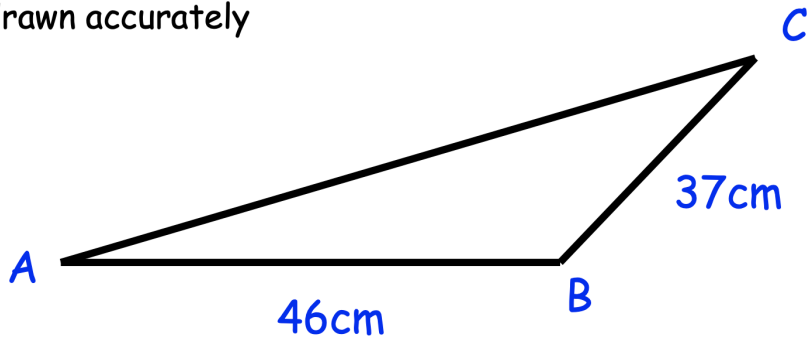
14cm

(1)

6. The triangle ABC is shown below.



Not drawn accurately



Joshua says that AC has a length of 85cm.

Explain why Joshua must be wrong.

.....
.....

(1)

7. Yara says that the lengths of the 3 sides of a triangle are 11.9cm, 17.4cm and 28.7cm.



Could a triangle exist with those lengths of sides?
Explain your answer.

.....
.....

(1)

8. Two sides of a triangle have lengths of 30cm and 18cm.



Write down an error interval for the third side of the triangle, y .

.....
(2)

9. Two sides of a triangle have lengths of 3.7m and 4.6m



Write down an error interval for the third side of the triangle, x .

.....
(2)