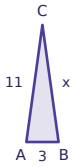
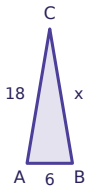
Task card 1 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 3 and 11. Write the range of possible lengths x of the third side.



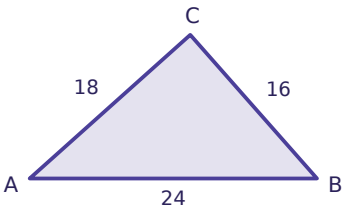
Task card 2 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 6 and 18. The third side has a whole-number length. How many different lengths are possible?



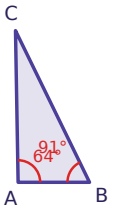
Task card 3 Triangle Inequality & Side–Angle O...

In △ABC, AB = 24, BC = 16 and AC = 18. Which angle is the largest? Answer A, B, or C.



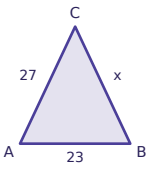
Task card 4 Triangle Inequality & Side–Angle O...

In △ABC, m∠A = 91° and m∠B = 64°. Which side is the shortest? Answer AB, BC, or AC.



Task card 5 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 23 and 27. Write the range of possible lengths x of the third side.

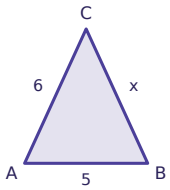


Task card 6 Triangle Inequality & Side–Angle O...

Can the lengths 24, 6, 26 be the side lengths of a triangle? Answer yes or no.

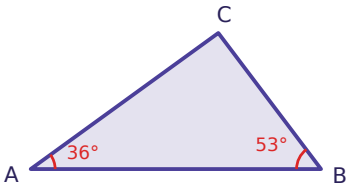
Task card 7 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 5 and 6. The third side has a whole-number length. How many different lengths are possible?



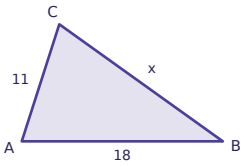
Task card 8 Triangle Inequality & Side–Angle O...

In △ABC, m∠A = 36° and m∠B = 53°. Which side is the shortest? Answer AB, BC, or AC.



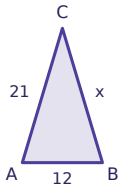
Task card 9 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 18 and 11. Write the range of possible lengths x of the third side.



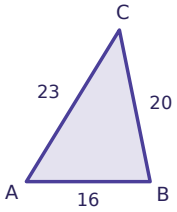
Task card 10 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 12 and 21. The third side has a whole-number length. How many different lengths are possible?



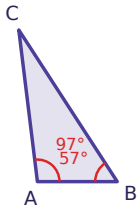
Task card 11 Triangle Inequality & Side–Angle O...

In △ABC, AB = 16, BC = 20 and AC = 23. Which angle is the largest? Answer A, B, or C.



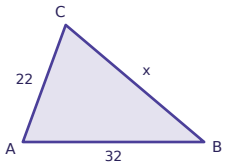
Task card 12 Triangle Inequality & Side–Angle O...

In △ABC, m∠A = 97° and m∠B = 57°. Which side is the shortest? Answer AB, BC, or AC.



Task card 13 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 32 and 22. Write the range of possible lengths x of the third side.

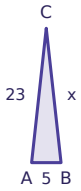


Task card 14 Triangle Inequality & Side–Angle O...

Can the lengths 3, 6, 9 be the side lengths of a triangle? Answer yes or no.

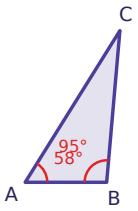
Task card 15 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 5 and 23. The third side has a whole-number length. How many different lengths are possible?



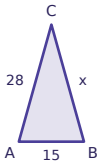
Task card 16 Triangle Inequality & Side–Angle O...

In △ABC, m∠A = 58° and m∠B = 95°. Which side is the longest? Answer AB, BC, or AC.



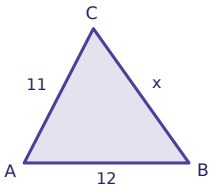
Task card 17 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 15 and 28. Write the range of possible lengths x of the third side.



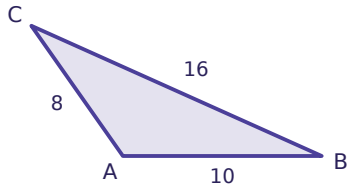
Task card 18 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 12 and 11. The third side has a whole-number length. How many different lengths are possible?



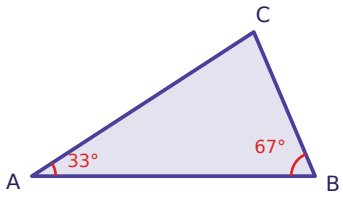
Task card 19 Triangle Inequality & Side–Angle O...

In △ABC, AB = 10, BC = 16 and AC = 8. Which angle is the largest? Answer A, B, or C.



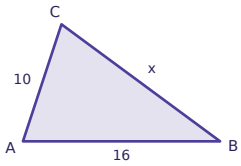
Task card 20 Triangle Inequality & Side–Angle O...

In △ABC, m∠A = 33° and m∠B = 67°. Which side is the longest? Answer AB, BC, or AC.



Task card 21 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 16 and 10. Write the range of possible lengths x of the third side.

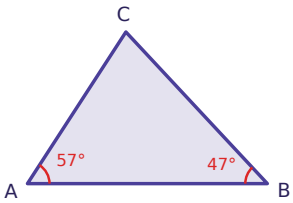


Task card 22 Triangle Inequality & Side–Angle O...

Can the lengths 25, 35, 7 be the side lengths of a triangle? Answer yes or no.

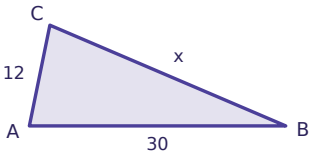
Task card 23 Triangle Inequality & Side–Angle O...

In △ABC, m∠A = 57° and m∠B = 47°. Which side is the shortest? Answer AB, BC, or AC.



Task card 24 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 30 and 12. Write the range of possible lengths x of the third side.



Triangle Inequality & Side–Angle Order Task Cards

Recording sheet · Grade 10 · Answer yes or no, write a range like 3 < x < 11, or name the angle or side asked for.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Triangle Inequality & Side–Angle Order Task Cards: Answer Key

Grade 10 · Hard

The answers online

1. $8 < x < 14$	**2.** 11	**3.** C
4. AB	**5.** $4 < x < 50$	**6.** yes
7. 9	**8.** BC	**9.** $7 < x < 29$
10. 23	**11.** B	**12.** AB
13. $10 < x < 54$	**14.** no	**15.** 9
16. AC	**17.** $13 < x < 43$	**18.** 21
19. A	**20.** AB	**21.** $6 < x < 26$
22. no	**23.** AC	**24.** $18 < x < 42$