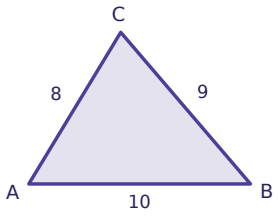
Task card 1 Triangle Inequality & Side–Angle O...

Can the lengths 6, 2, 5 be the side lengths of a triangle? Answer yes or no.

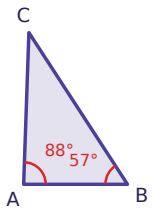
Task card 2 Triangle Inequality & Side–Angle O...

In △ABC, AB = 10, BC = 9 and AC = 8. Which angle is the smallest? Answer A, B, or C.



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

In △ABC, m∠A = 88° and m∠B = 57°. Which side is the longest? Answer AB, BC, or AC.

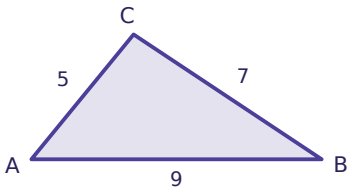


Task card 4 Triangle Inequality & Side–Angle O...

Can the lengths 11, 8, 9 be the side lengths of a triangle? Answer yes or no.

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

In △ABC, AB = 9, BC = 7 and AC = 5. Which angle is the smallest? Answer A, B, or C.

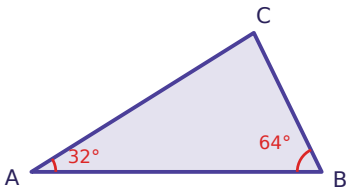


Task card 6 Triangle Inequality & Side–Angle O...

Can the lengths 7, 11, 2 be the side lengths of a triangle? Answer yes or no.

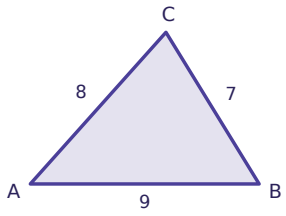
Task card 7 Triangle Inequality & Side–Angle O...

In △ABC, m∠A = 32° and m∠B = 64°. Which side is the longest? Answer AB, BC, or AC.



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

In △ABC, AB = 9, BC = 7 and AC = 8. Which angle is the smallest? Answer A, B, or C.

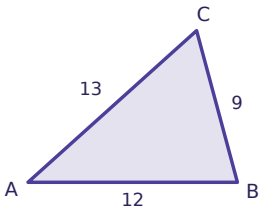


Task card 9 Triangle Inequality & Side–Angle O...

Can the lengths 10, 3, 7 be the side lengths of a triangle? Answer yes or no.

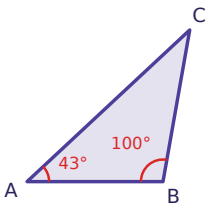
Task card 10 Triangle Inequality & Side–Angle O...

In △ABC, AB = 12, BC = 9 and AC = 13. Which angle is the smallest? Answer A, B, or C.



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

In △ABC, m∠A = 43° and m∠B = 100°. Which side is the longest? Answer AB, BC, or AC.

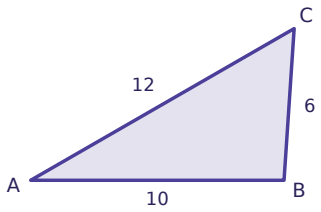


Task card 12 Triangle Inequality & Side–Angle O...

Can the lengths 22, 7, 12 be the side lengths of a triangle? Answer yes or no.

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

In △ABC, AB = 10, BC = 6 and AC = 12. Which angle is the smallest? Answer A, B, or C.

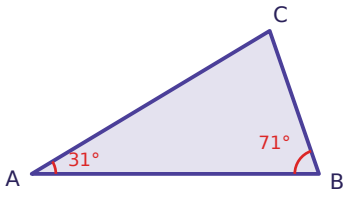


Task card 14 Triangle Inequality & Side–Angle O...

Can the lengths 12, 28, 14 be the side lengths of a triangle? Answer yes or no.

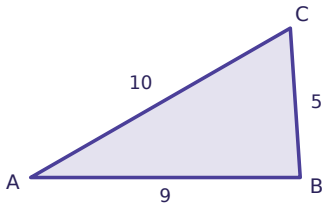
Task card 15 Triangle Inequality & Side–Angle O...

In △ABC, m∠A = 31° and m∠B = 71°. Which side is the shortest? Answer AB, BC, or AC.



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

In △ABC, AB = 9, BC = 5 and AC = 10. Which angle is the largest? Answer A, B, or C.

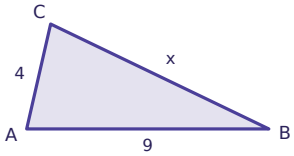


Task card 17 Triangle Inequality & Side–Angle O...

Can the lengths 4, 15, 17 be the side lengths of a triangle? Answer yes or no.

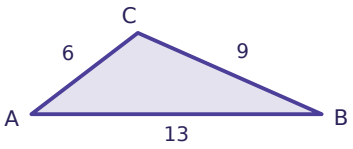
Task card 18 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 9 and 4. Write the range of possible lengths x of the third side.



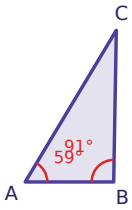
Task card 19 Triangle Inequality & Side–Angle O...

In △ABC, AB = 13, BC = 9 and AC = 6. Which angle is the largest? Answer A, B, or C.



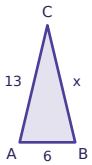
Task card 20 Triangle Inequality & Side–Angle O...

In △ABC, m∠A = 59° and m∠B = 91°. Which side is the shortest? Answer AB, BC, or AC.



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

Two sides of a triangle measure 6 and 13. Write the range of possible lengths x of the third side.

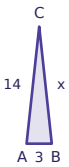


Task card 22 Triangle Inequality & Side–Angle O...

Can the lengths 18, 2, 17 be the side lengths of a triangle? Answer yes or no.

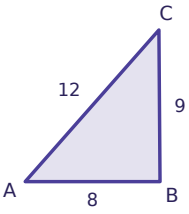
Task card 23 Triangle Inequality & Side–Angle O...

Two sides of a triangle measure 3 and 14. Write the range of possible lengths x of the third side.



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

In △ABC, AB = 8, BC = 9 and AC = 12. Which angle is the smallest? Answer A, B, or C.



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 · Easy

The answers online

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