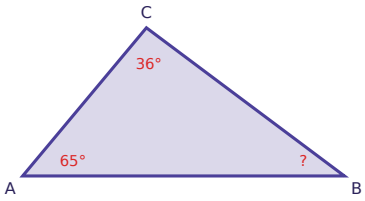
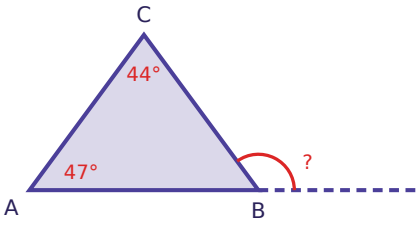
Task card 1 Triangle Angle Sum & Exterior Angl...

Two angles of a triangle measure 65° and 36°. Find the third angle.



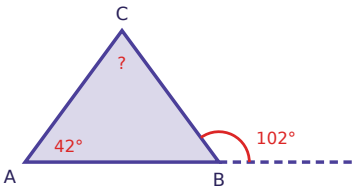
Task card 2 Triangle Angle Sum & Exterior Angl...

Find the measure of the exterior angle at B.



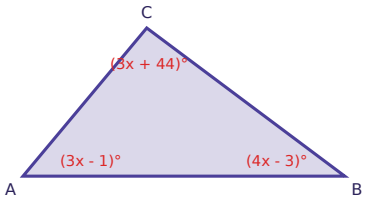
Task card 3 Triangle Angle Sum & Exterior Angl...

The exterior angle at B is shown. Find the measure of the angle at C.



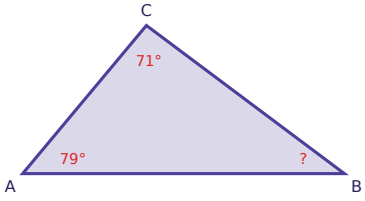
Task card 4 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (3x - 1)°, (4x - 3)°, (3x + 44)°. Find x.



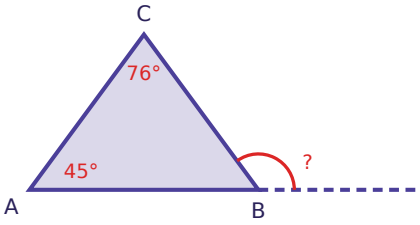
Task card 5 Triangle Angle Sum & Exterior Angl...

Two angles of a triangle measure 79° and 71°. Find the third angle.



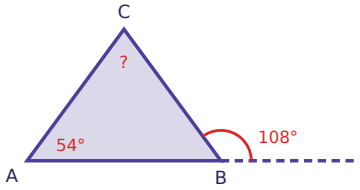
Task card 6 Triangle Angle Sum & Exterior Angl...

Find the measure of the exterior angle at B.



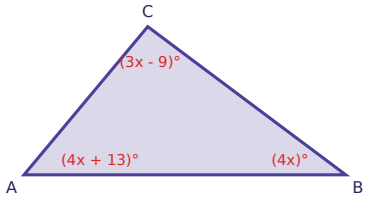
Task card 7 Triangle Angle Sum & Exterior Angl...

The exterior angle at B is shown. Find the measure of the angle at C.



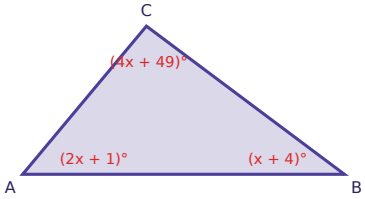
Task card 8 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (4x + 13)°, (4x)°, (3x - 9)°. Find x.



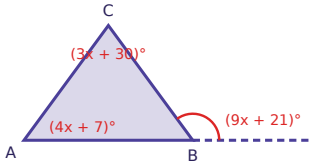
Task card 9 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (2x + 1)°, (x + 4)°, (4x + 49)°. Find x.



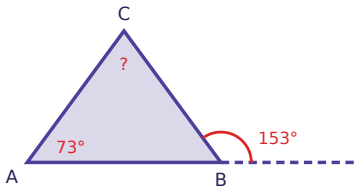
Task card 10 Triangle Angle Sum & Exterior Angl...

The angle at A is (4x + 7)°, the angle at C is (3x + 30)°, and the exterior angle at B is (9x + 21)°. Find x.



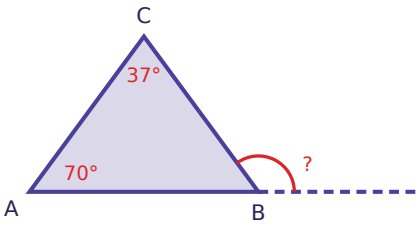
Task card 11 Triangle Angle Sum & Exterior Angl...

The exterior angle at B is shown. Find the measure of the angle at C.



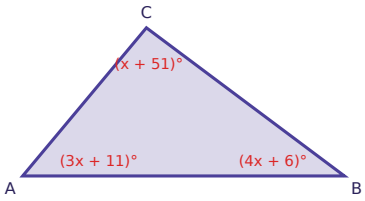
Task card 12 Triangle Angle Sum & Exterior Angl...

Find the measure of the exterior angle at B.



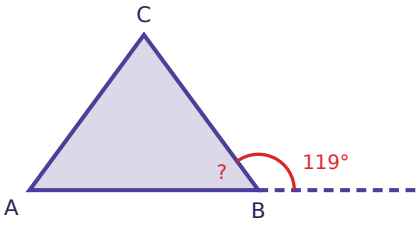
Task card 13 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (3x + 11)°, (4x + 6)°, (x + 51)°. Find x.



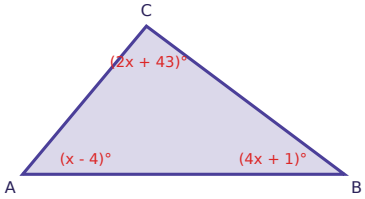
Task card 14 Triangle Angle Sum & Exterior Angl...

Find the measure of the interior angle at B.



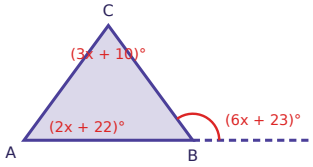
Task card 15 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (x - 4)°, (4x + 1)°, (2x + 43)°. Find x.



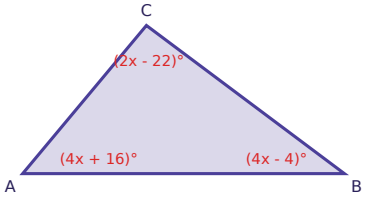
Task card 16 Triangle Angle Sum & Exterior Angl...

The angle at A is (2x + 22)°, the angle at C is (3x + 10)°, and the exterior angle at B is (6x + 23)°. Find x.



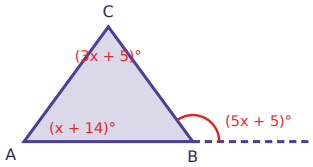
Task card 17 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (4x + 16)°, (4x - 4)°, (2x - 22)°. Find x.



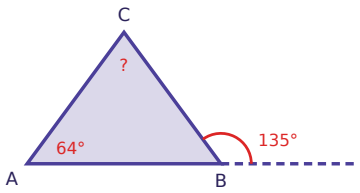
Task card 18 Triangle Angle Sum & Exterior Angl...

The angle at A is (x + 14)°, the angle at C is (3x + 5)°, and the exterior angle at B is (5x + 5)°. Find x.



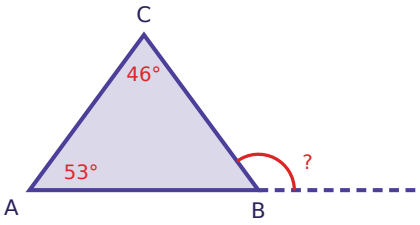
Task card 19 Triangle Angle Sum & Exterior Angl...

The exterior angle at B is shown. Find the measure of the angle at C.



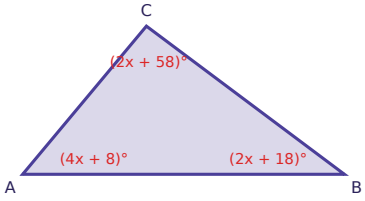
Task card 20 Triangle Angle Sum & Exterior Angl...

Find the measure of the exterior angle at B.



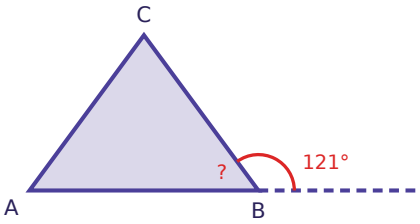
Task card 21 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (4x + 8)°, (2x + 18)°, (2x + 58)°. Find x.



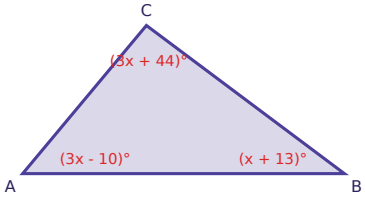
Task card 22 Triangle Angle Sum & Exterior Angl...

Find the measure of the interior angle at B.



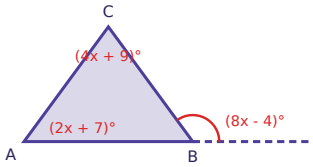
Task card 23 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (3x - 10)°, (x + 13)°, (3x + 44)°. Find x.



Task card 24 Triangle Angle Sum & Exterior Angl...

The angle at A is (2x + 7)°, the angle at C is (4x + 9)°, and the exterior angle at B is (8x - 4)°. Find x.



Triangle Angle Sum & Exterior Angles Task Cards

Recording sheet · Grade 8 · Find each missing angle or the value of x. Figures are not drawn to scale; write numbers without the ° sign.

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 Angle Sum & Exterior Angles Task Cards: Answer Key

Grade 8 · Medium

The answers online

1. 79	**2.** 91	**3.** 60
4. x = 14	**5.** 30	**6.** 121
7. 54	**8.** x = 16	**9.** x = 18
10. x = 8	**11.** 80	**12.** 107
13. x = 14	**14.** 61	**15.** x = 20
16. x = 9	**17.** x = 19	**18.** x = 14
19. 71	**20.** 99	**21.** x = 12
22. 59	**23.** x = 19	**24.** x = 10