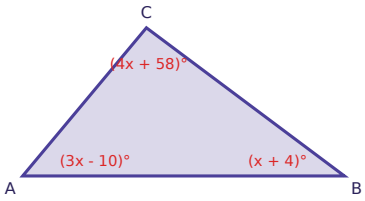
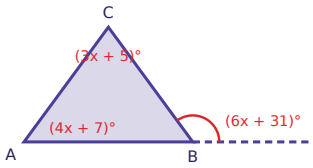
Task card 1 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (3x - 10)°, (x + 4)°, (4x + 58)°. Find x.



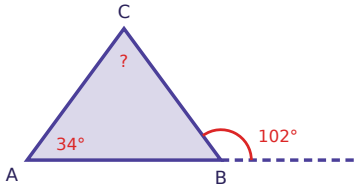
Task card 2 Triangle Angle Sum & Exterior Angl...

The angle at A is (4x + 7)°, the angle at C is (3x + 5)°, and the exterior angle at B is (6x + 31)°. Find x.



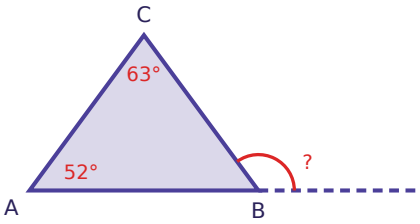
Task card 3 Triangle Angle Sum & Exterior Angl...

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



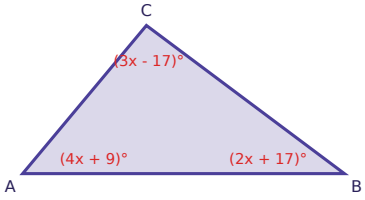
Task card 4 Triangle Angle Sum & Exterior Angl...

Find the measure of the exterior angle at B.



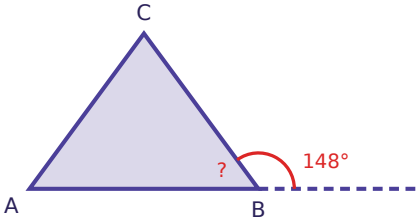
Task card 5 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (4x + 9)°, (2x + 17)°, (3x - 17)°. Find x.



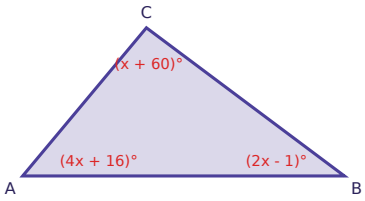
Task card 6 Triangle Angle Sum & Exterior Angl...

Find the measure of the interior angle at B.



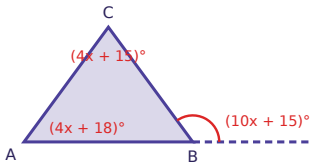
Task card 7 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (4x + 16)°, (2x - 1)°, (x + 60)°. Find x.



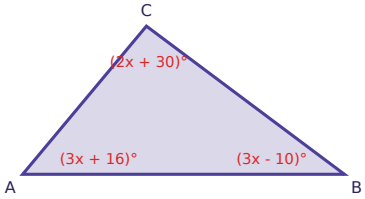
Task card 8 Triangle Angle Sum & Exterior Angl...

The angle at A is (4x + 18)°, the angle at C is (4x + 15)°, and the exterior angle at B is (10x + 15)°. Find x.



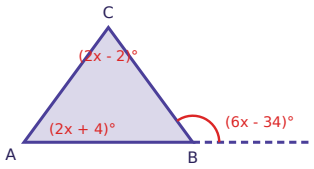
Task card 9 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (3x + 16)°, (3x - 10)°, (2x + 30)°. Find x.



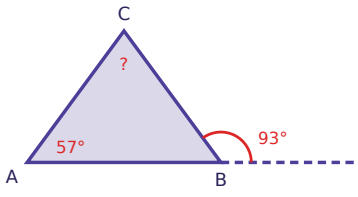
Task card 10 Triangle Angle Sum & Exterior Angl...

The angle at A is (2x + 4)°, the angle at C is (2x - 2)°, and the exterior angle at B is (6x - 34)°. Find x.



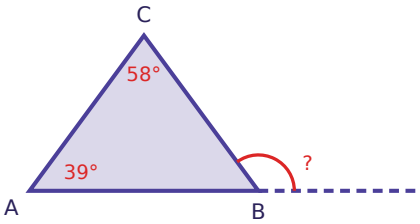
Task card 11 Triangle Angle Sum & Exterior Angl...

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



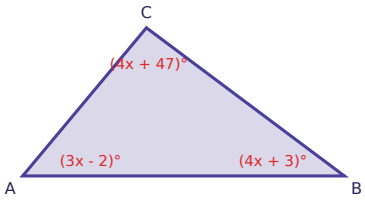
Task card 12 Triangle Angle Sum & Exterior Angl...

Find the measure of the exterior angle at B.



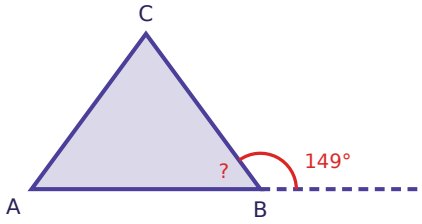
Task card 13 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (3x - 2)°, (4x + 3)°, (4x + 47)°. Find x.



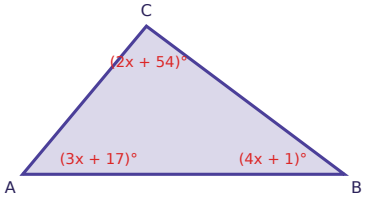
Task card 14 Triangle Angle Sum & Exterior Angl...

Find the measure of the interior angle at B.



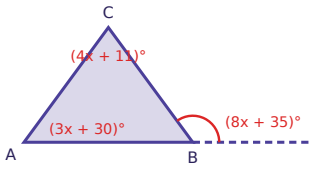
Task card 15 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (3x + 17)°, (4x + 1)°, (2x + 54)°. Find x.



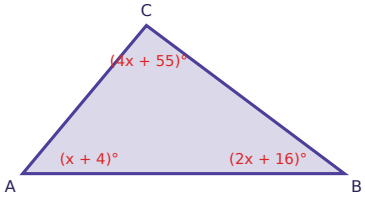
Task card 16 Triangle Angle Sum & Exterior Angl...

The angle at A is (3x + 30)°, the angle at C is (4x + 11)°, and the exterior angle at B is (8x + 35)°. Find x.



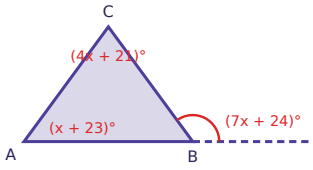
Task card 17 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (x + 4)°, (2x + 16)°, (4x + 55)°. Find x.



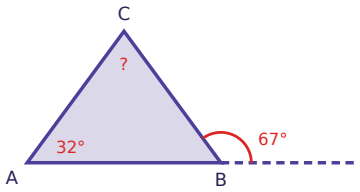
Task card 18 Triangle Angle Sum & Exterior Angl...

The angle at A is (x + 23)°, the angle at C is (4x + 21)°, and the exterior angle at B is (7x + 24)°. Find x.



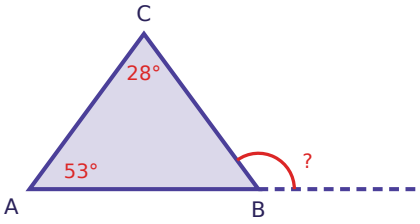
Task card 19 Triangle Angle Sum & Exterior Angl...

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



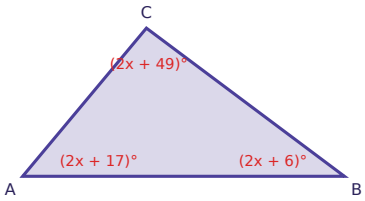
Task card 20 Triangle Angle Sum & Exterior Angl...

Find the measure of the exterior angle at B.



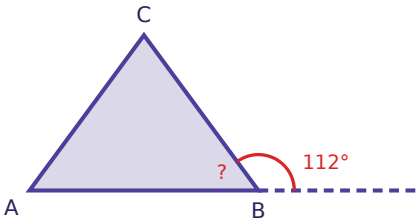
Task card 21 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (2x + 17)°, (2x + 6)°, (2x + 49)°. Find x.



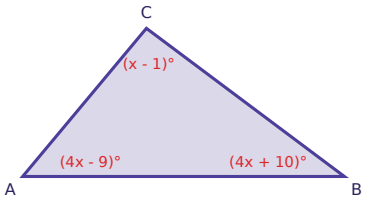
Task card 22 Triangle Angle Sum & Exterior Angl...

Find the measure of the interior angle at B.



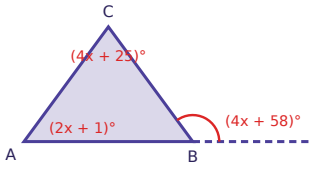
Task card 23 Triangle Angle Sum & Exterior Angl...

The angles of a triangle are (4x - 9)°, (4x + 10)°, (x - 1)°. Find x.



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

The angle at A is (2x + 1)°, the angle at C is (4x + 25)°, and the exterior angle at B is (4x + 58)°. 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 · Hard

The answers online

1. x = 16	**2.** x = 19	**3.** 68
4. 115	**5.** x = 19	**6.** 32
7. x = 15	**8.** x = 9	**9.** x = 18
10. x = 18	**11.** 36	**12.** 97
13. x = 12	**14.** 31	**15.** x = 12
16. x = 6	**17.** x = 15	**18.** x = 10
19. 35	**20.** 81	**21.** x = 18
22. 68	**23.** x = 20	**24.** x = 16