Name: **Grade:**   **Score:**

Worksheet #4
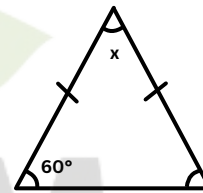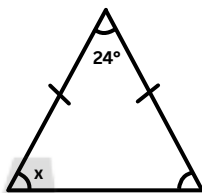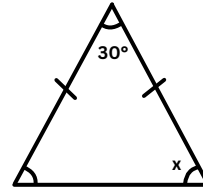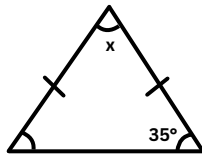
MISSING ANGLE IN A TRIANGLE

Learning goal: Students will be able to apply the angle sum property of triangles to find unknown interior angles when two angles are given.

Instruction: Find the measure of all angles.

x ... 35°	30° ... x
24° ... x	x ... 60°
x ... 38°	B, x ... A, 55°, C

Worksheet #4(Answers)

MISSING ANGLE IN A TRIANGLE

MeandMath
BELIEVE YOURSELF

Learning goal: Students will be able to apply the angle sum property of triangles to find unknown interior angles when two angles are given.
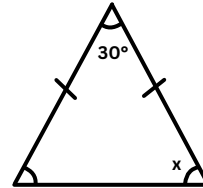
Instruction: Find the measure of all angles.
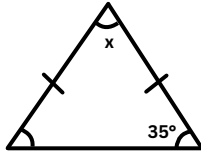
Solution:

Sum of angles in triangle = 180°

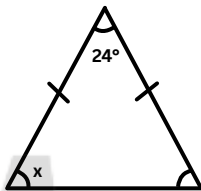$x + x + 35 = 180$

$2x = 145$

$x = 72.5°$

Solution:

Sum of angles in triangle = 180°

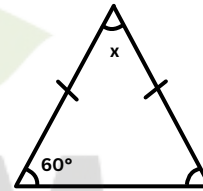$x + x + 30 = 180$

$2x = 150$

$x = 75°$

Solution:

Sum of angles in triangle = 180°

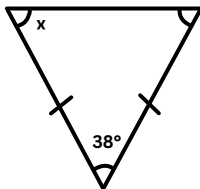$24 + x + x = 180$

$2x = 156$

$x = 78°$

Solution:

Sum of angles in triangle = 180°

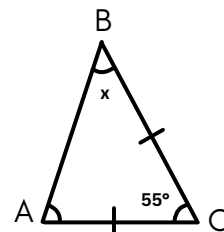$x + x + 61 = 180$

$2x = 119$

$x = 59.5°$

Solution:

Sum of angles in triangle = 180°

$x + x + 38 = 180$

$2x = 142$

$x = 71°$

Solution:

Sum of angles in triangle = 180°

$x + 55 + 55 = 180$

$x = 70°$