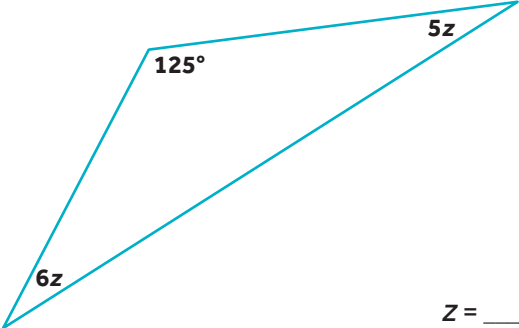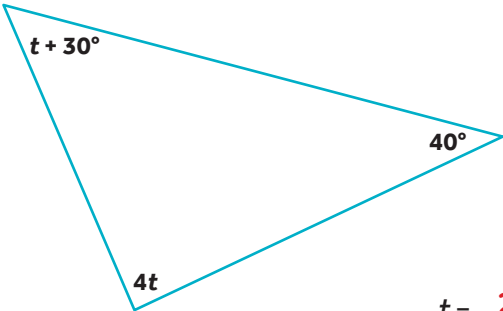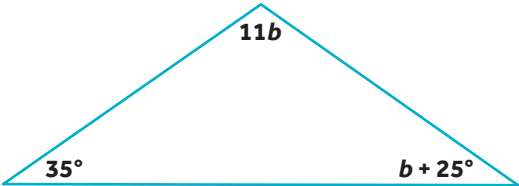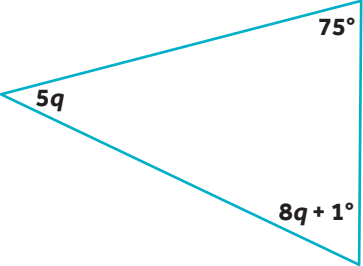# Interior Angles in Triangles:
Solve for the Variable
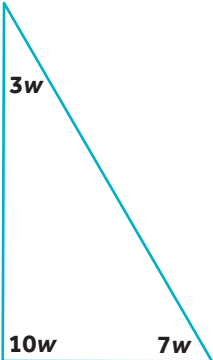
The **Triangle Angle-Sum Theorem** states that the measures of the interior angles of a triangle add up to 180°. Use this theorem to solve for the variables below.
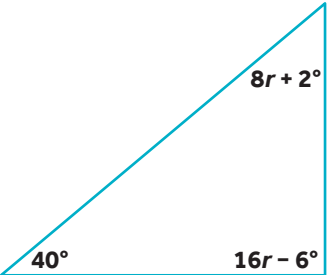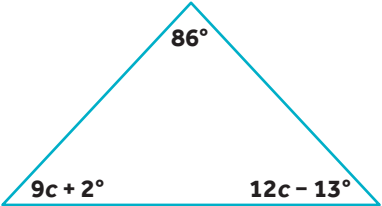
1.

5z

125°

6z

$z =$ __5°__

2.

t + 30°

40°

4t

$t =$ __22°__

3.

11b

35°   b + 25°

$b =$ __10°__

4.

75°

5q

8q + 1°

$q =$ __8°__

5.

3w

10w   7w

$w =$ __9°__

6.

8r + 2°

40°   16r – 6°

$r =$ __6°__

7.

86°

9c + 2°   12c – 13°

$c =$ __5°__

8.

3n

n + 40°

4n – 20°

$n =$ __20°__

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