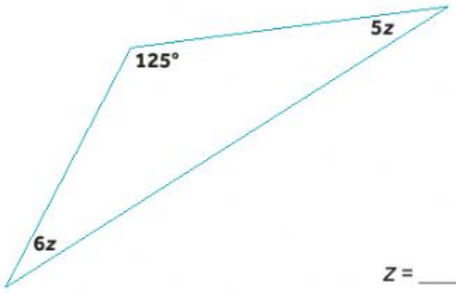
Name _____ Date _____

Interior Angles in Triangles: Solve for the Variable

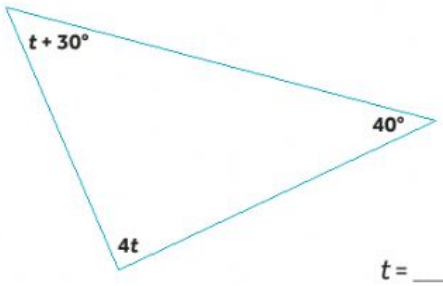
The **Triangle Angle-Sum Theorem** states that the measures of the interior angles of a triangle add up to 180°. Use this theorem to solve for the variables below. Show workout for each problem & submit when complete.

1.



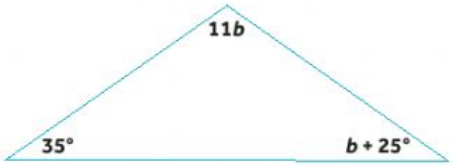
$z =$ _____

2.



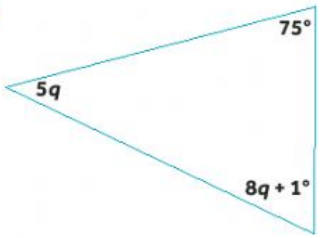
$t =$ _____

3.



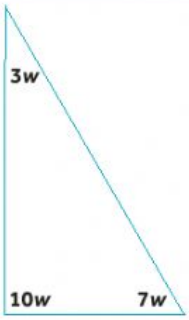
$b =$ _____

4.



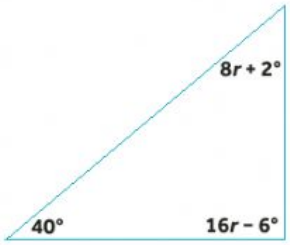
$q =$ _____

5.



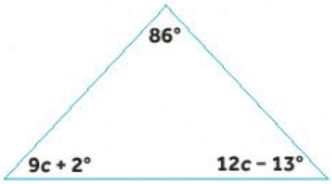
$w =$ _____

6.



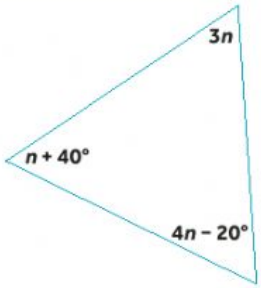
$r =$ _____

7.



$c =$ _____

8.



$n =$ _____

LIVEWORKSHEETS

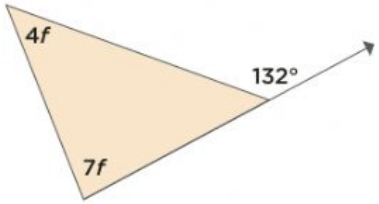
Name _____ Date _____

EXTERIOR ANGLES OF TRIANGLES: SOLVE FOR THE VARIABLE

The **Exterior Angle Theorem** states that the measure of an exterior angle of a triangle is equal to the sum of the two opposite interior angles. Use this theorem to solve for the variables below.

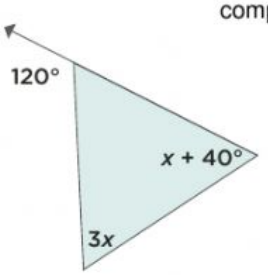
Show workout for each problem & submit when complete.

1.



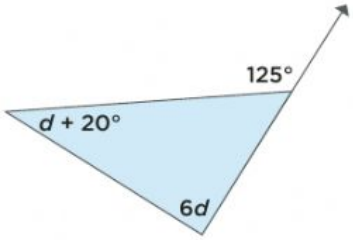
$f =$ _____

2.



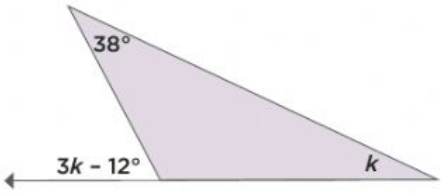
$x =$ _____

3.



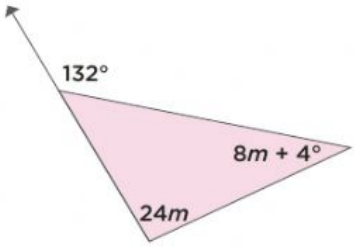
$d =$ _____

4.



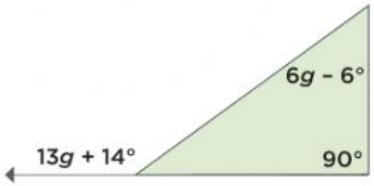
$k =$ _____

5.



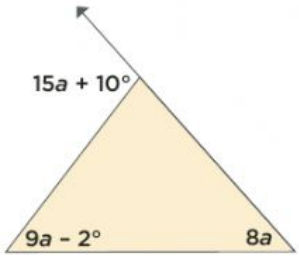
$m =$ _____

6.



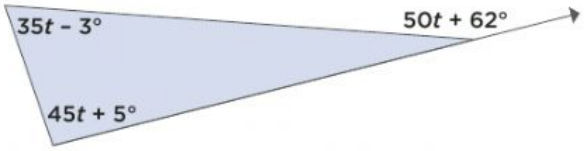
$g =$ _____

7.



$a =$ _____

8.



$t =$ _____

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