Name _____   Date _____

1. ∠A measures 60°.
    a. Extend the rays of ∠A ,and draw
        parallelogram $ABCD$ on the grid paper.
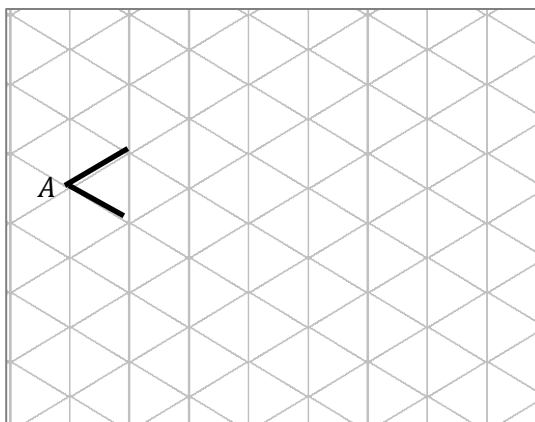
    b. What are the measures of ∠B, ∠C, and ∠D?

2. $WXYZ$ is a parallelogram not drawn to scale.
    a. Using what you know about parallelograms, give the
        measure of sides XY and YZ.
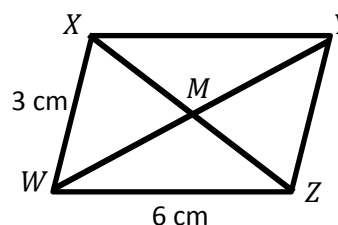
    b. ∠WXY = 113°. Use what you know about angles in a
        parallelogram to find the measure of the other angles.

    ∠XYZ = _____°   ∠YZW = _____°   ∠ZWX = _____°

3. Jack measured some segments in Problem 2. He found that $\overline{WY}$ = 8 cm and $\overline{MZ}$ = 3 cm.
    Give the lengths of the following segments:
    WM = _____ cm   MY = _____ cm

    XM = _____ cm   XZ = _____ cm

COMMON CORE

Lesson 17: Draw parallelograms to clarify their attributes, and define
parallelograms based on those attributes.
Date: 3/20/15

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5.D.28

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4. Using the properties of shapes, explain why all parallelograms are trapezoids.

5. Teresa says that because the diagonals of a parallelogram bisect each other, if one diagonal is 4.2 cm, the other diagonal must be half that length. Use words and pictures to explain Teresa's error.

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