TEST NAME: **7G235-1 Edwards**
TEST ID: **1709069**
GRADE: **07 - Seventh Grade - 08 - Eighth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student: _____

Class: _____

Date: _____

1. Millie is drawing a triangle. One side has a length of 9 units, and another side has a length of 6 units. What could be the length of the third side of the triangle?

   A. 3 units

   B. 7 units

   C. 15 units

   D. 18 units

2. Ms. Warren had each student take 3 pencils and create a triangle with them. Roberto has 3 pencils that measure 12 cm, 5 cm, and 7 cm. How many triangles can Roberto create with his 3 pencils?

   A. infinitely many

   B. two

   C. one

   D. none

3. The length of two sides of triangle *XYZ* are 6 cm and 10 cm. Which set of inequalities represents all the possible lengths, *L*, of of the third side of triangle *XYZ*?

   A. $L > 6$ and $L <>$

   B. $L \geq 6$ and $L \leq 10$

   C. $L > 4$ and $L <>$

   D. $L \geq 4$ and $L \leq 16$

4. Which set of side lengths could **not** be used to create a triangle?

    A. 2 cm, 3 cm, 4 cm

    B. 4 cm, 5 cm, 6 cm

    C. 8 cm, 8 cm, 8 cm

    D. 10 cm, 20 cm, 30 cm

5. A rectangular pyramid is cut parallel to its base. What is the shape of the cross section?

    A. rectangle

    B. trapezoid

    C. triangle

6. **A square pyramid is shown below. The pyramid will be sliced vertically from the top vertex to the center of the base.**
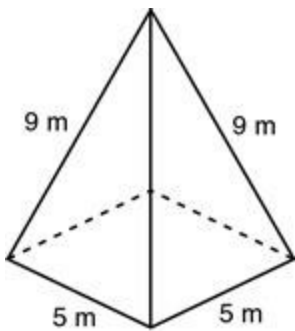

Which shape best represents the cross section that will result?

    A. square
    B. triangle
    C. rectangle
    D. parallelogram

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7. A cube is cut into two equal pieces using a horizontal plane. The top half of the cube is removed. A vertical plane cuts the remaining bottom piece of the cube in half. What shape is the cross-section of the bottom piece of the cube?

   A.   square

   B.   rectangle

   C.   rhombus

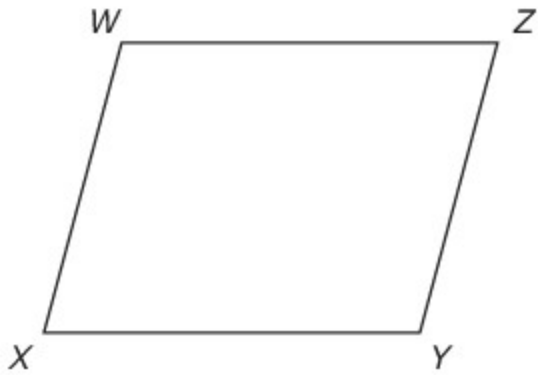   D.   trapezoid

8. In the figure below, $\overrightarrow{XZ}$ extends from $\overleftrightarrow{WY}$.
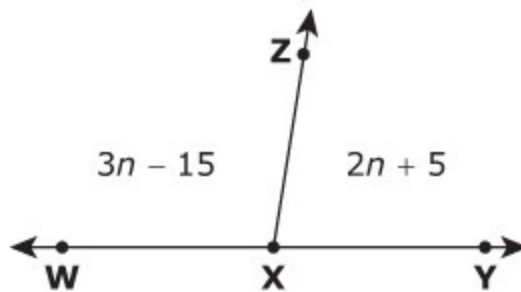
What is $m\angle YXZ$?

   A.   45°

   B.   81°

   C.   87°

   D.   99°

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9. In parallelogram *WZYX*, $\angle W = (3m)^\circ$ and $\angle Z = (2m+5)^\circ$.
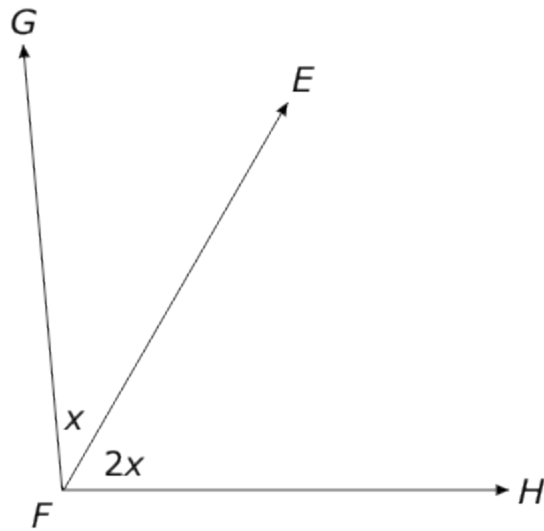

What is the measure of $\angle X$?
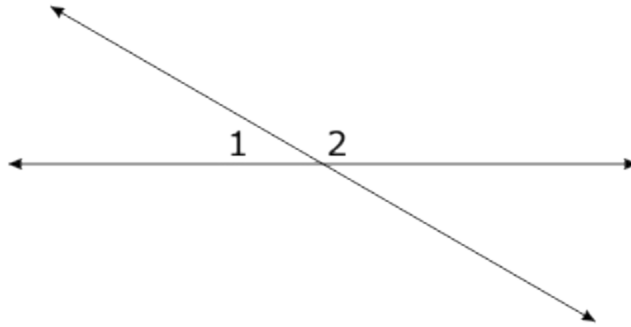
A.   35°

B.   75°

C.   79°

D.   105°

10.

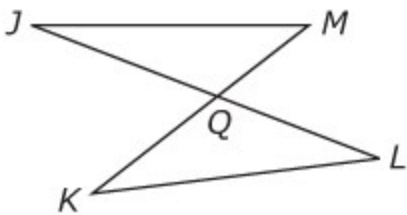In the figure below, ∠*GFH* measures 96°.

What is the measure of ∠*EFH*?

A. 32°

B. 48°

C. 64°

D. 84°

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11. In the figure below, ∠1 measures $x°$ and ∠2 measures $5x°$.
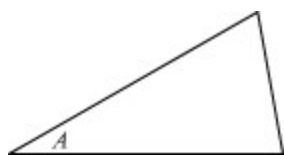

What is the measure of ∠1?

A. 20°

B. 30°

C. 36°

D. 45°

12. In the figure below, $\overline{JL}$ intersects $\overline{KM}$ at point Q and $m \angle QMJ = 38°$ and $m \angle QJM = 21°$.

What is $m \angle LQM$?

A. 49°

B. 59°

C. 62°

D. 121°

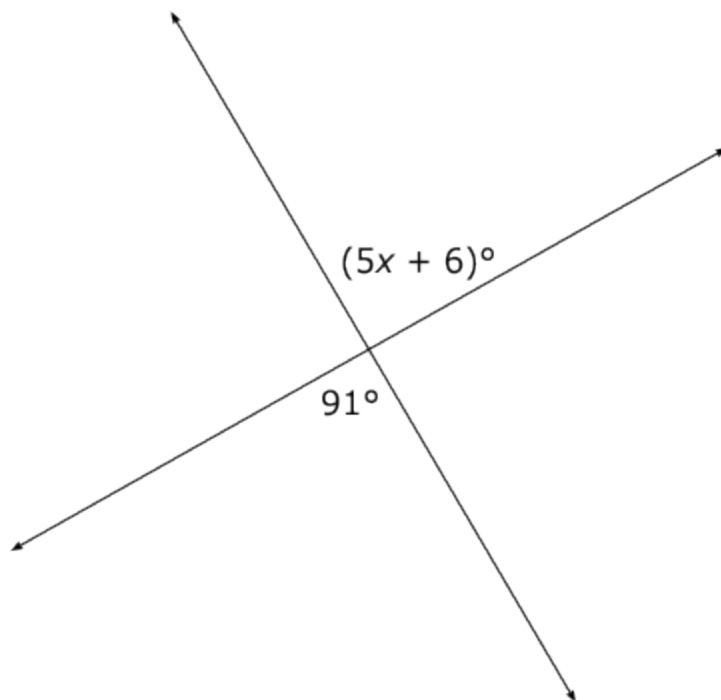13. The sum of the measures of the three interior angles of any triangle is always 180°. The unmarked angles of the triangle below total 150°.

What is the measure of an angle that would be complementary to ∠A?

A. 30°

B. 60°

C. 90°

D. 150°

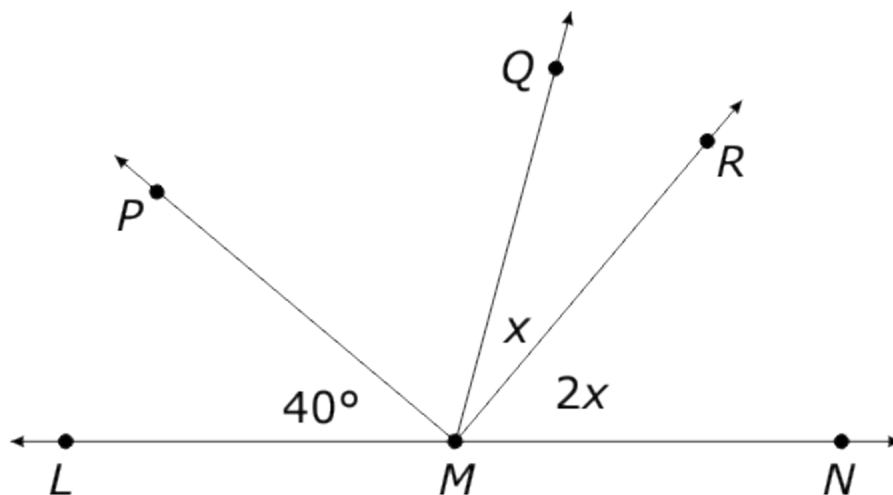14. Two lines intersect in the figure below.

$(5x + 6)°$

$91°$

What is the value of *x*?

A. 17

B. 20

C. 24

D. 89

In the figure below, ∠*LMR* measures 120°.

What is the measure of ∠*PMQ*?

A. 30°

B. 40°

C. 50°

D. 60°