

Mathematics Assessment

Grade 8 (MYP3)

Name _____

Date of birth: _____

Grade _____

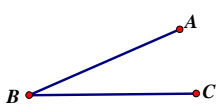
Instructions: Try to answer at least one question per group **without** using a calculator. You have up to 30 minutes. If you are stuck with one group of problems, move on to the next group. When you are finished with this test hand it back to the test administrator.

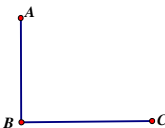
1. Round the following numbers:

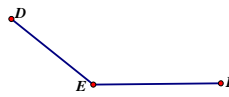
a. 52.609 to four significant figures

b. 639,401 to the ten thousands place

2. Please answer true (T) or false (f) for statements concerning the following angles:

a.  $\angle ABC$ is obtuse

b.  $\angle ABC$ is a right angle.

c.  $\angle FED$ is acute

3. Make the following equation true by inserting parentheses) or (.

$$2 + 8 * 6 - 3 = 47$$

4. Simplify the following:

a. $2^2 * 2^3$

b. 4.3 m to cm

c. $\sqrt[3]{8}$

5. Perform the following fraction operations

a. $\frac{3}{8} + \frac{4}{8} =$

b. $\frac{2}{9} - \frac{1}{3}$

c. $2\frac{2}{5} \cdot \frac{1}{2}$

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6. Please draw the following triangles.

a. Isosceles

b. Scalene

c. Equilateral

7. Solve

a. $4.067 + 0.041 + 73.9$

b. 38.05×0.8

c. $56.08 \div 0.8$

8. Solve the following system of equations. $x + y = 5$ and $y = 3x$

9. Simplify $3a + 7(2a - 3) + 4(6 \div 2)$

10. If a store offers a discount on a jacket for 50 euros with an original sales price of 58 euros, what was percent discount for this item?

11. If a line has a slope of $-1/3$ and a y-intercept of 5, write its equation.

12. What is the product of $(x + 3)(x - 4)$?