



Revision Sheet

Subject: **MATHEMATICS**

Date: / 3 / 2016

Name: _____

Grade: 08 _____

I) Place the LETTER with the correct ANSWER in the BOX provided.

1. Which type of Triangle can be constructed with a **50°, 70°, 60° angle measures**

A. Right Δ

B. Obtuse Δ

C. Isosceles Δ

D. Scalene Δ

2. Which type of Triangle can be constructed with a **11, 13, 11 side lengths.**

A. Equilateral Δ

B. Scalene Δ

C. Isosceles Δ

D. Right

3. Which set of side lengths **CANNOT** be used to create a triangle?

A. 6, 12, 17

B. 12, 10, 9

C. 10, 10, 21

D. 12, 12, 24

4. Solve $4x - 7 + 3 + 5x = 59$

A. $x = 6$

B. $x = 6.6$

C. $x = 7$

D. $x = 11.8$

5. Combine like terms $9m + 8 - 7 - 4m - 5m$

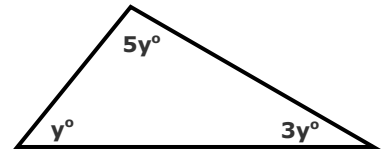
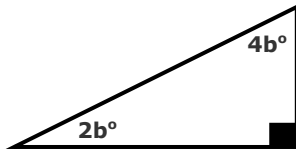
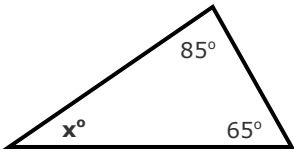
A. $m + 1$

B. $m - 1$

C. 1

D. - 1

II) a) Find the value of each variable.



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b) Sketch a Triangle to fit each description. If no triangle can be drawn, write **not possible**.

Obtuse Isosceles

Obtuse Scalene

Right Equilateral

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III) Simplify the following.

1. $5t + 12f - t - 3f$

2. $7m + 3n - m + 2n$

3. $4(x + 3) - 5$

4. $3(5 - 3x) - 4x$

IV) Solve.

1. $7a + 4a - 3 = -25$

2. $-3x - 2x - 3 = 12$

3. $-3(2y - 3) + 4y = -3$

4. $\frac{5m}{8} - \frac{6}{8} + \frac{3m}{8} = \frac{2}{8}$

5. $\frac{x}{12} - \frac{1}{4} + \frac{5x}{6} = \frac{2}{3}$

6. $n - \frac{7n}{10} + \frac{n}{2} = -2\frac{2}{5}$

7. $11x + 9 = 4x + 30$

8. $15 - 2y = -2(y + 3)$

9. $4(3a - 2) = 8a - 5$

10. $\frac{5a}{6} + \frac{1}{3} = \frac{7}{12} + \frac{3a}{4}$

V) One angle of a triangle is 3 times as large as another. The 3rd angle is twice the sum of the first two angles. What is the measure of largest angle?