

Warmup 2 / (**Exponent of $x^2 \cdot x \cdot x^7$**)

Simplify each as much as possible.

1) $4a^2 \cdot 2b^3 \cdot 5a^4b$

2) $\frac{5c^2d^8}{15c^4d^3}$

3) $(4f^2g^3)^4$

UPDATE

- Angles Quiz is now WEDNESDAY
- Today – Angles of Triangles
- Tomorrow – Review
- **BY THE WAY – 3rd and 4th period switch starts Wednesday**

QUIZ Topics

- Naming angles correctly using 3 letters
- Measuring Angles with a protractor
- Complementary/Supplementary/Vertical
- Finding angle measures with parallel lines and a transversal
- Corresponding/Alternate Interior/Alternate Exterior/Same-side interior
- Angle sums of triangles (Today)

Worksheet Answers



Table of Contents (2nd Semester)

- p. 1 Exponent Basics (1.2)**
- p. 2 Zero and Negative Exponents (1.5)**
- p. 3 Multiplying and Dividing Powers (1.3)**
- p. 4 Power to a Power (1.4)**
- p. 5 Scientific Notation (1.6)**
- p. 6 Calculating with Scientific Notation (1.7)**
- p. 7 Angle Basics**
- p. 8 Angles formed by Parallel Lines**
- p. 9 Angle Sums of a Triangle (Guided)**

Angle Sum of a Triangle + Review

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Objectives:

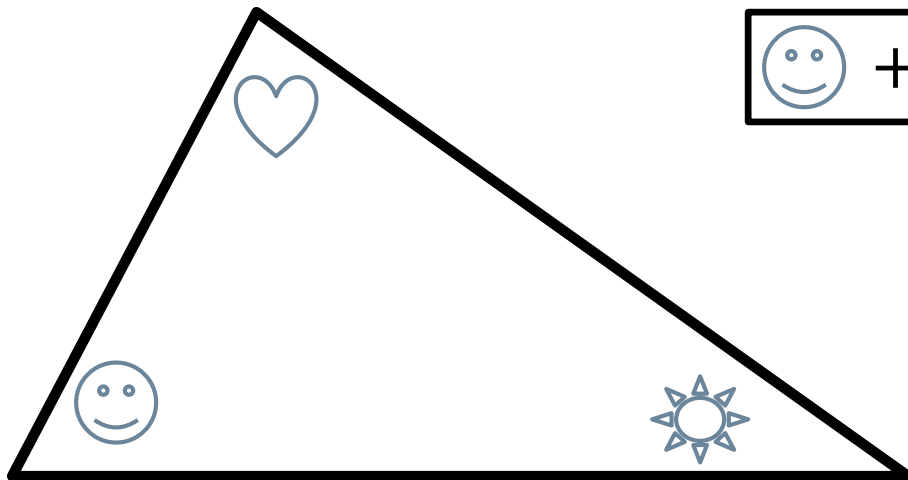
- Given two angles in a triangle, find the measure of the third
- Use all the angle rules we have learned
- Set up the correct equation based on how the diagram looks

Investigating the Angles of a Triangle...



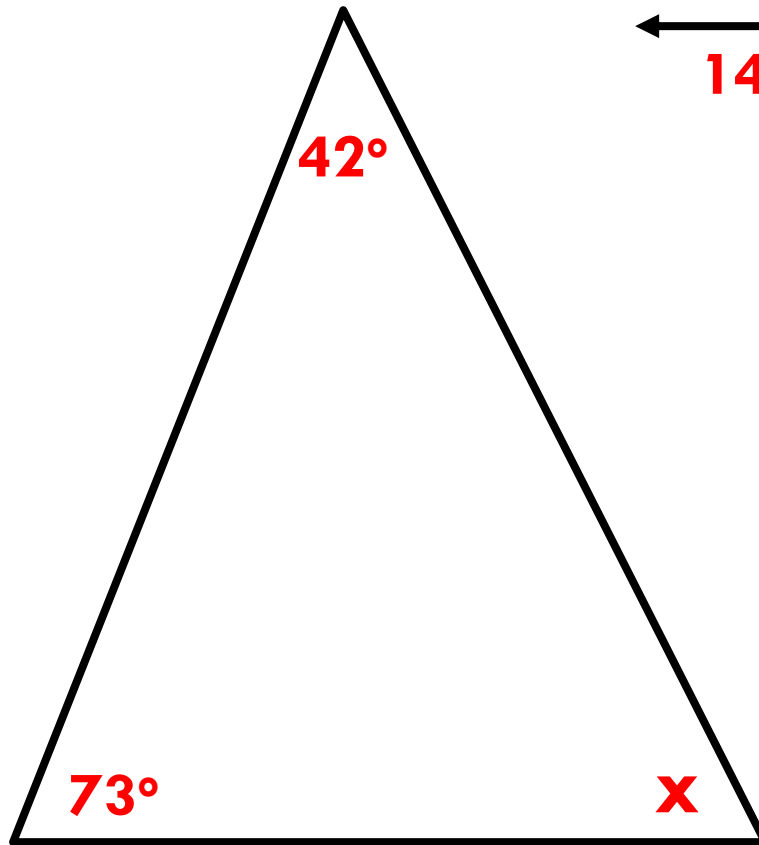
□ Interior Angles of a Triangle:

▣ Their sum is always 180° !!!!!!

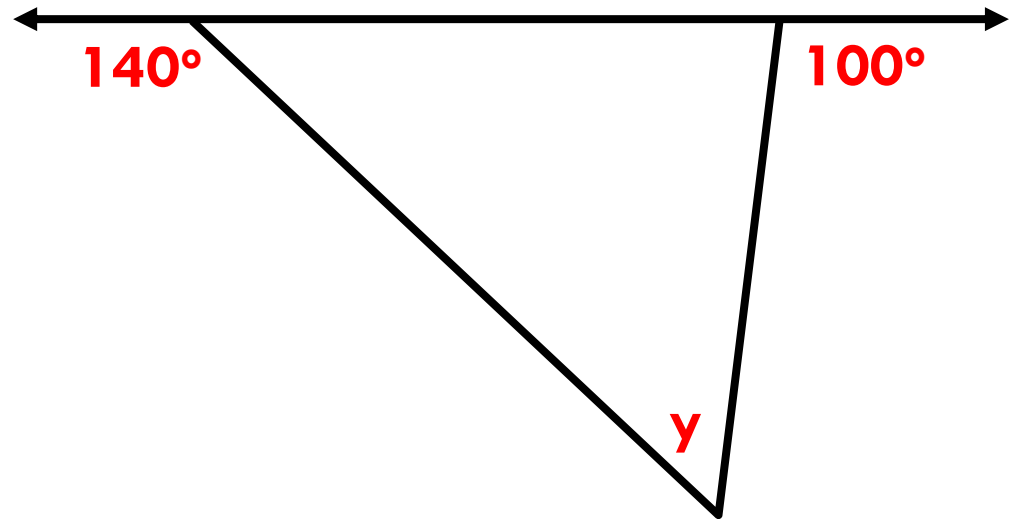


$$\text{smiley face} + \text{heart} + \text{sun} = 180^\circ$$

Find the missing angles!



$$x = 65$$



Find other 2 interior
angles first
 $y = 60$

Find all angle measures:

$$a = 35$$

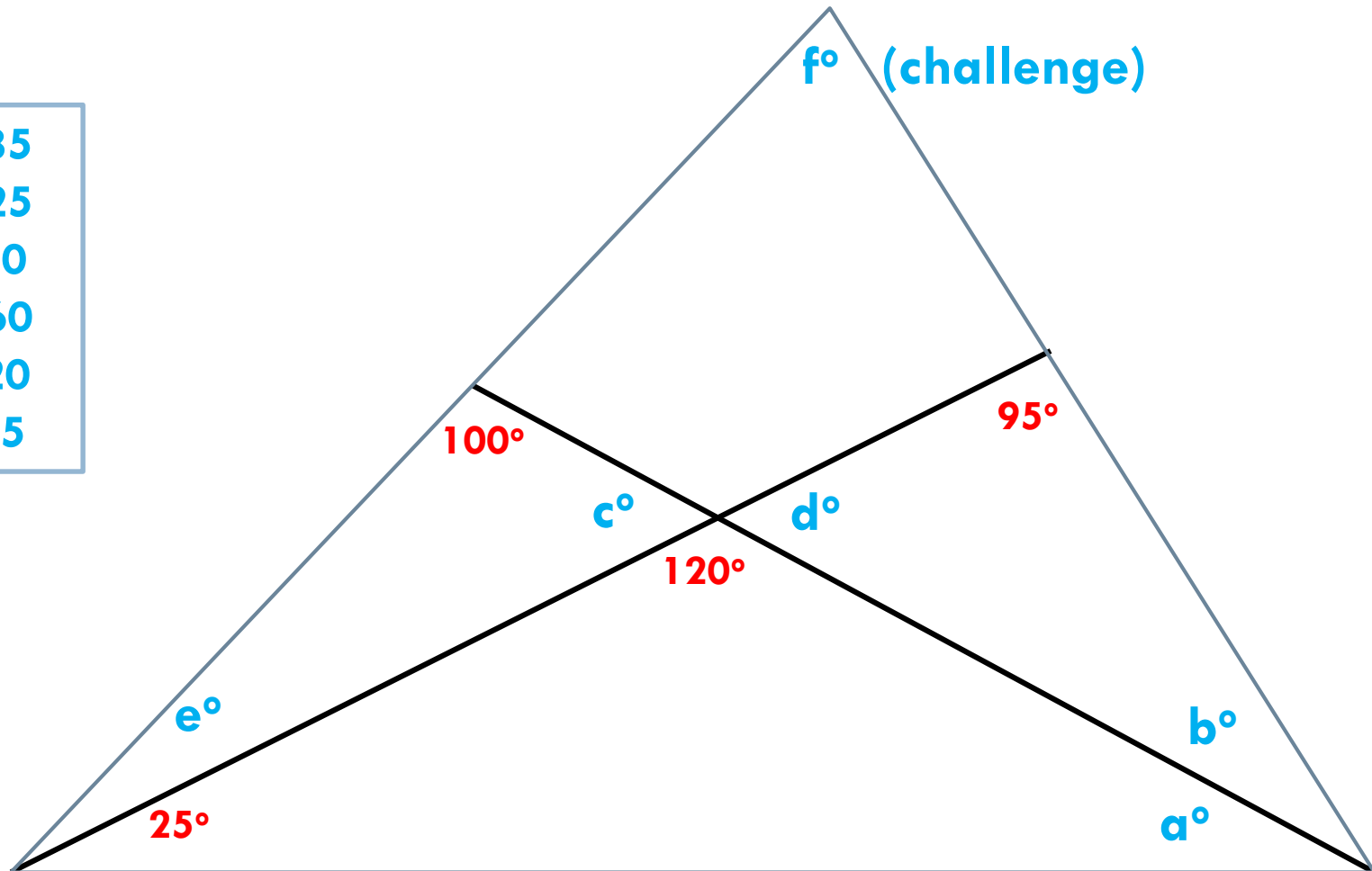
$$b = 25$$

$$c = 60$$

$$d = 60$$

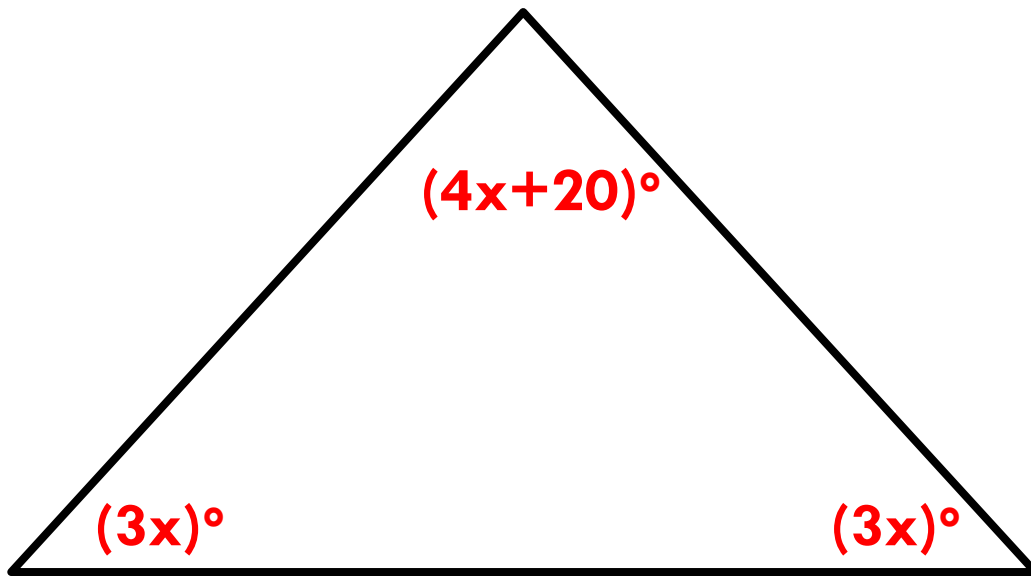
$$e = 20$$

$$f = 75$$



Algebra Connection...

□ Find the measure of each angle:



$$(3x) + (3x) + (4x + 20) = 180$$

$$10x + 20 = 180$$

$$10x = 160$$

$$x = 16$$

$$(3x) = 3 \cdot 16 = 48^\circ$$

$$(4x + 20) = 4 \cdot 16 + 20 = 84$$

$$48^\circ, 48^\circ, 84^\circ$$

$$\text{Check: } 48 + 48 + 84 = 180!$$

Homework

□ p. 393 (1, 2, 6, 8, 12, 14)