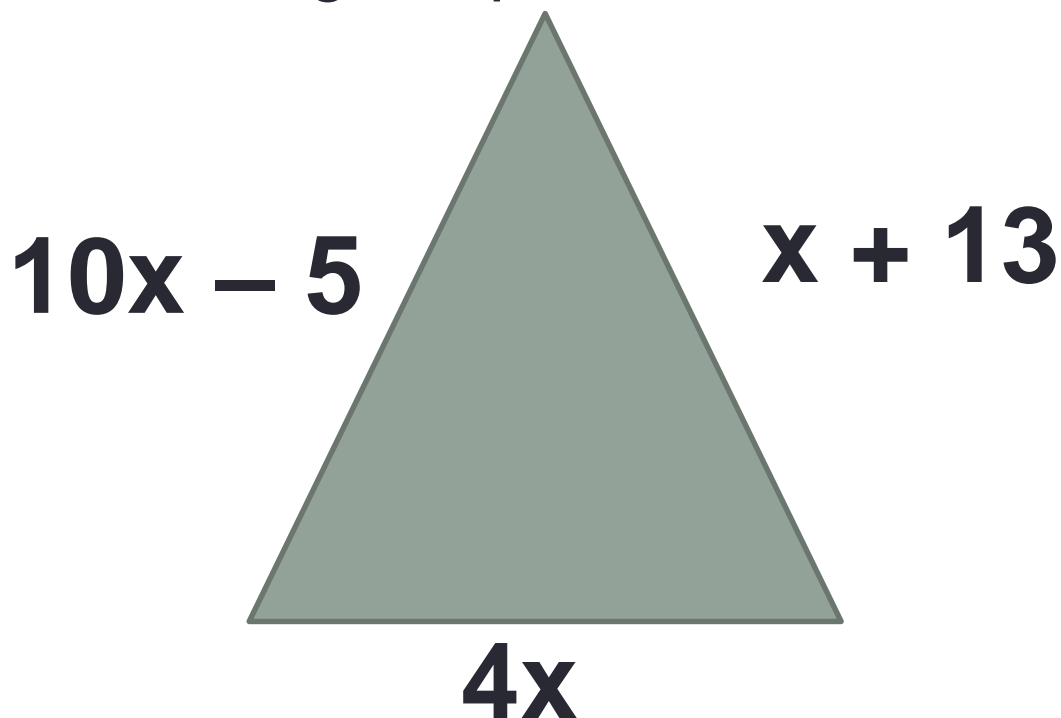


Warmup 11/(The last 2 digits of next year)

Created by Kaylynn Schlichting

1. If the perimeter of the triangle is **38**, find the value of x .
2. Plug your solution back in to check that the perimeter is really 38.
3. Is this triangle equilateral, isosceles, or scalene?



$$x = 2$$

Going over the Equations Quizzes

- Deadline will be 2 weeks after Thanksgiving break
- No tasks; must retake the entire thing

Pass out Scavenger Hunt Template

Try to set up an equation with your group:

Twelve years ago, Lex was one-third the age he is now.
How old is he now?

$L = \text{Lex's Age}$

$L - 12 = \text{Lex's age 12 years ago}$

$(\text{Lex 12 years ago}) = \frac{1}{3}(\text{Lex right now})$

$L - 12 = \frac{1}{3}L$

$L = 18$

Lex is 18.

A bar diagram for the Lilly age problem...

- In 16 years, Lilly will be 5 times as old as she is now.
How old is Lilly now?

Story Problem (on back of handout)

- Anne, Ben, and Nate are doing push-ups. Anne does some, but Ben does 1 more than Anne. Nate does three times as much as Anne. If they do 61 pushups total, how many pushups did each person do?

a) Define a variable.

b) Set up an equation to describe this situation. Use your equation to solve the problem.

$x = \# \text{ of pushups Anne does}$

$\text{Anne} = x$

$\text{Ben} = x + 1$

$\text{Nate} = 3x$

$(x) + (x + 1) + (3x) = 61$

$5x + 1 = 61$

$x = 12$

**$\text{Anne} = 12, \text{Ben} = 13,$
 $\text{Nate} = 36$**

$\text{Check: } 12 + 13 + 36 = 61$

Fractions WITHOUT common denominators

- **Solve. Early finishers should CHECK their answer!**

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

Today's Activity

- Scavenger Hunt in Pairs
- Each correct answer leads you to the next problem
- First pair done with ALL WORK SHOWN (ALL of it) will win a prize!
- Whatever you don't finish will be homework. You will have to copy the problems/take pictures/look on my website.