

Practice



$$\begin{array}{r}
 12x = 6x + 75 \\
 -6x \quad -6x \\
 \hline
 6x = 75
 \end{array}$$

17. An empty dunk tank is filled with water at a rate of 12 gallons per minute. Another dunk tank has 75 gallons of water in it and is filled at a rate of 6 gallons per minute. Solve and interpret $12x = 6x + 75$. (See Example 5.) $x = 12.5$

18. A pizza parlor makes 52 pizza crusts the first week of summer

18. A pizza parlor makes 52 pizza crusts the first week of summer and 180 pizza crusts each subsequent week. A diner makes 26 pizza crusts the first week of summer and 90 pizza crusts each subsequent week. When will the total number of pizza crusts made by the pizza parlor be twice the total number of pizza crusts made by the diner?

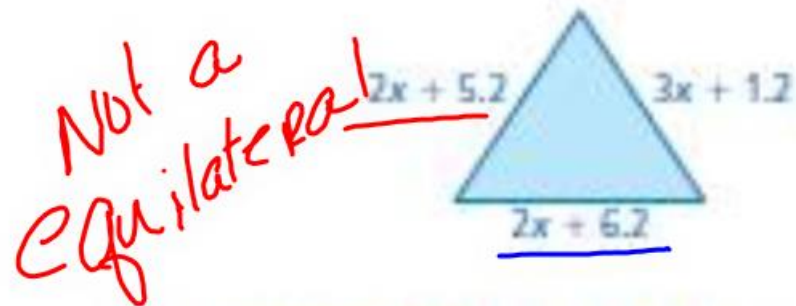
$$\begin{array}{r}
 52 \\
 180 \\
 \hline
 232
 \end{array}$$

$$\begin{array}{r}
 26 \\
 90 \\
 \hline
 116
 \end{array}$$

19. **CONNECT CONCEPTS** Is the triangle an



19. **CONNECT CONCEPTS** Is the triangle an equilateral triangle? Justify your answer.



$$2x + 5.2 = 2x + 6.2$$

No sol

21. Fill in the blanks in three different ways to create an equation that has one solution, no solution, and infinitely many solutions.

$$7x + 3x + 10 = -2(\quad x + \quad)$$

-5, 4, 7

No sol $10x + 10 = -2(-5x + 4)$

one sol $10x + 10 = -2(7x + 4)$

many $10x + 10 = -2(-5x + 5)$

23. **CONNECTING TO REAL LIFE** One serving of oatmeal provides

100% of the fiber you need daily. You must eat the remaining