

p. 363 Word Problems

Nov. 29

20. Given: 16 more white keys than black keys
(2c)

Total: 88 keys

(1T) Find: how many of each

(1T) Let x = the # of black keys

(1T) then let $x + 16$ = the # of white keys

22 Given: Mike is 7 yrs older than Agla

Sum of their ages is 29.

Find: how old are they

Let x = Agla's age

Then ~~let $x+7$~~ = Mike's age

Agla is 11 yrs old
Mike is 18 yrs old.

$$\begin{aligned}x + x + 7 &= 29 \\2x + 7 &= 29 \\2x &= 22\end{aligned}$$

$$x = 11$$

24. Given: Population of Japan
154.2 times Canada's. ^{Sum:} 155 ~~000~~ ~~000~~

Find: the population of each

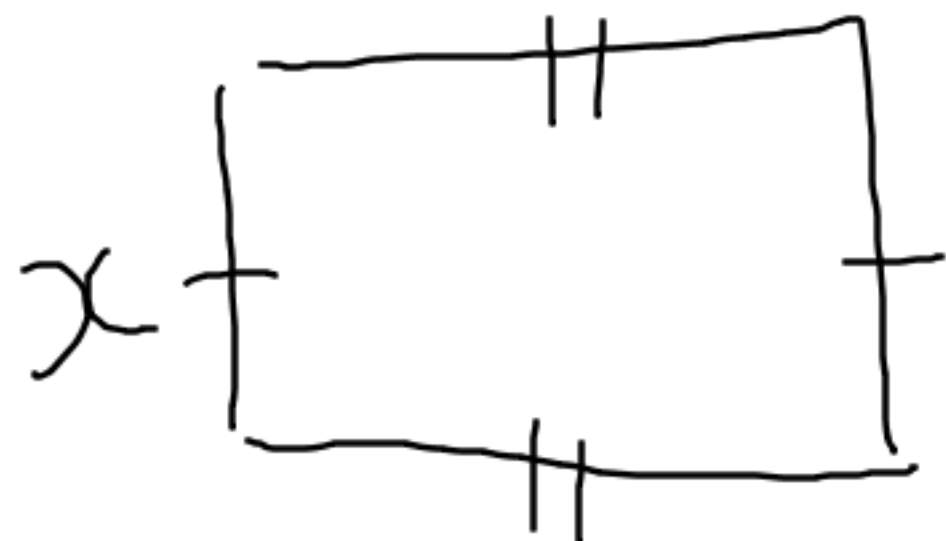
Let x = Canada's population

Then let $4.2x$ = Japan's pop.

$$\begin{array}{r} x + 4.2x = 155 \text{ } 000 \text{ } 000 \\ \hline 5.2x = 155 \text{ } 000 \text{ } 000 \\ \hline \end{array}$$

$\frac{5.2}{5.2}$ $\frac{155 \text{ } 000 \text{ } 000}{5.2}$

25. a) Given



$$P = 36 \text{ cm}$$

Find: the dimensions

Let x = the width

Then let $x+6$ = the length

$$P = 2w + 2L$$

$$36 = 2x + 2(x+6)$$

$$36 = 2x + 2x + 12$$

$$36 - 12 = 4x + 12 - 12$$

$$\frac{24}{4} = \frac{4x}{4}$$

$$x = 6$$

$\therefore$ the width is 6 cm
& the length 12 cm

P. 363 Writing equation

proper format for

a_1, a_3, a_5b, a_6a, b

Do test review if not done