P. 367

Dec 8

#23 Given:

Team Canada 35 more goals than goals against. Total goals = 41.

Find: number of goals scored and goals scored against

Let x = goals scored against

Then let $x+35$ = goals scored

3 goals were scored against Canada scored 38 goals.

$x + x + 35 = 41$

$-35 \quad -35$

$2x + 35 = 41$

6

$2x = 3$

28. Given: Aretha has $0.85 in nickels & dimes. Two more nickels than dimes

Find: how many nickels & dimes does she have

Let x = the # dimes

then let $x+2$ = the # nickels

value
$\$0.10x$
$\$0.05(x+2)$

$0.10x + 0.05(x+2) = 0.85$

$0.10x + 0.05x + 0.10 = 0.85$

$-0.10 \quad -0.10$

$0.15x = 0.75$

$x = 5$

Given

Greg has 3 more nickels than dimes and 2 more quarters than dimes. If he has $3.45 altogether

Find how many coins of each type does he have?

Value

Let x = # of dimes $0.10x$

Then let $x+3$ = # nickels $0.05(x+3)$

And let $x+2$ = # of quarters $0.25(x+2)$

$$0.10x+0.05(x+3)+0.25(x+2)=3.45$$

Homework p. 366-7 through #35

full solutions