

In class:

Unit 3 Extra Practice WS #24, 27, 31, 38-39, 42, 49,
52, 62, 67, 71

(24) *Lauren 3 yrs. older
than brother Dyami.

*Sum of their ages is
23 yrs. How old is
Dyami?

Variables: D = Dyami's age
Lauren is $D + 3$ yrs.

Equation: $(D+3) + D = 23$

$\downarrow$ $\downarrow$
Lauren's Dyami
age

(31) Another way to solve:

(a) $n = \$ \text{needed}$

(b) verbal: $\$570 - \$120 = \$ \text{needed}$

(c) $570 - 120 = n$

(d) $450 = n$

(38) $x + 12 = 21$

Choice D.

Number
of hats
need to
buy

Huy already
has 12 hats

Total of
21 hats

(27) $74 - y = 60$

$\begin{array}{r} 74 - y = 60 \\ -74 \quad -74 \\ \hline \end{array}$

$-y = -14$

(D) $y = 14$

(39) $a + 32 = 96$

$\begin{array}{r} a + 32 = 96 \\ -32 \quad -32 \\ \hline \end{array}$

$a = 64$ Choice B.

(31) *Janelle wants surfboard.

*Saved \$120

*Costs \$570 (Total)

How much more does she need?

(42) Cora owes \$250

Already paid \$730

What is original cost?

Choice C. $x - 730 = 250$

Total
cost of
jet ski

Already
paid

Still
owes.

(a) variable: $n = \$ \text{needed}$

verbal: (b) $\$120 + \$ \text{needed} = \570

equation: (c) $120 + n = 570$

(d) $\begin{array}{r} 120 + n = 570 \\ -120 \quad -120 \\ \hline \end{array}$

$n = 450$

49. *Lita puts pictures in album

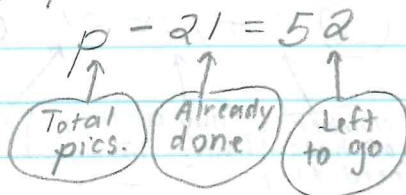
* Already put 21

* Still has 52 left

a. variable:

p = pics. total

b. equation:



$$\begin{array}{r} p - 21 = 52 \\ + 21 \quad + 21 \\ \hline \end{array}$$

$p = 73$ total pictures

52. *Adita bought 50 beads

* Paid \$6 total

How much for ea. bead?

.12 each bead

$$\begin{array}{r} 50 \overline{) 6.00} \\ \underline{- 50} \\ 100 \\ \underline{- 100} \\ 0 \end{array}$$

Choice D.

62. *Cost of band trip

divided among 42 people.

* Each person pays \$310.

Choice A. C = total cost of trip

$$\frac{\text{Total cost} \rightarrow C}{\text{\# people} \rightarrow 42} = 310$$

↑ cost per person

67. *Temperature must be greater than 65°

That means cannot be 65° and cannot be less than 65°

Choice A. $x > 65$

Temp. ↑ Greater than ↑

71. $4.2 + x \leq 11.7$ ← Goal: Isolate variable!

$$\begin{array}{r} 4.2 + x \leq 11.7 \\ - 4.2 \quad - 4.2 \\ \hline x \leq 7.5 \end{array}$$

Choice B.



"Answers must be less than or equal to 7.5."