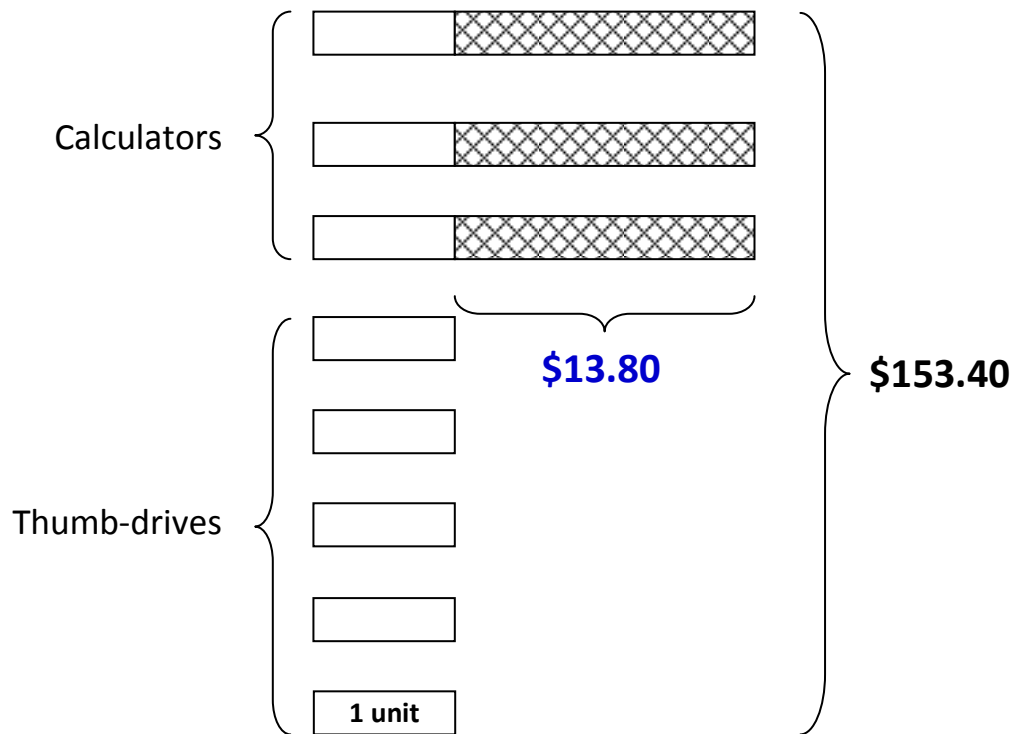


Questions from Shu Jing (22.09.13)

Q1. Kaiwen spent \$153.40 on 3 calculators and 5 thumb-drives. Each calculator cost \$13.80 more than a thumb drive. How much did he spend on the calculators?

Solution:



$$8 \text{ units} \rightarrow \$153.40 - \$13.80 \times 3 = \$112$$

$$1 \text{ unit (1 thumb-drive)} \rightarrow \$112 \div 8 = \$14$$

$$1 \text{ calculator} \rightarrow \$14 + \$13.80 = \$27.80$$

$$3 \text{ calculators} \rightarrow \$27.80 \times 3 = \$83.40$$

Ans: Kaiwen spent \$83.40 on the calculators.

Q2. Olivia, Penny and Quince were given some charity tickets to sell at 5 for \$6.

Olivia sold $\frac{1}{6}$ of the tickets. Penny sold $\frac{2}{3}$ as many tickets as Quince. Olivia and Penny sold a total of 90 tickets.

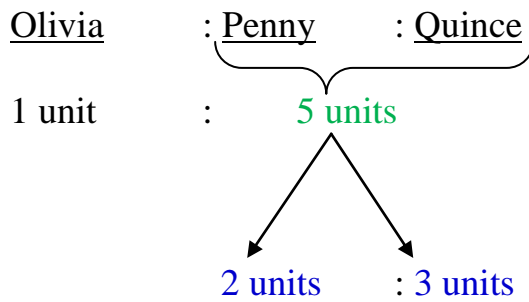
- (a) How many tickets did they sell altogether?
- (b) How much did they collect from the tickets they sold?

Solution:

$\frac{1}{6}$ of the tickets \rightarrow 1 unit (Olivia)

\rightarrow 6 units (total number of tickets)

Penny + Quince \rightarrow 5 units



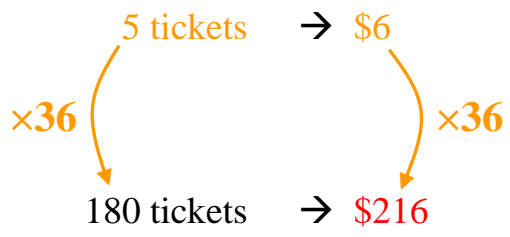
1 unit : 2 units : 3 units

Olivia + Penny \rightarrow 1 + 2 = 3 units

3 units \rightarrow 90 tickets
 $\times 2$
Total (6 units) \rightarrow 180 tickets

Ans: (a) They sold 180 tickets altogether.

(Q2 continued)



Ans: (b) They collected a total of \$216 from the tickets sold.

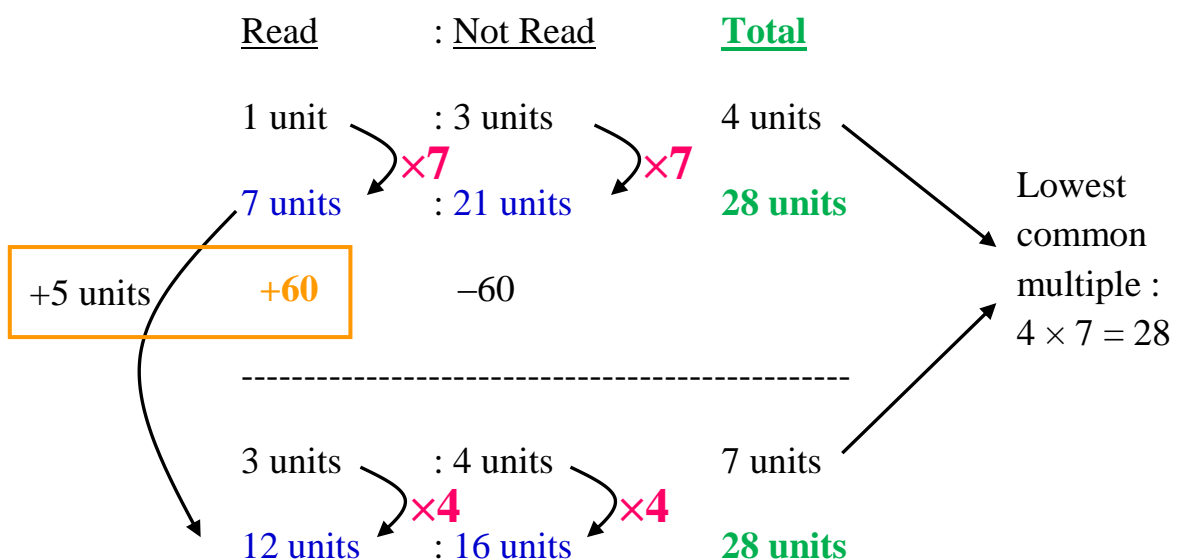
Q3. The number of pages of a novel Minnie has read to the number of pages she has not read is 1 : 3. If she reads another 60 pages, the number of pages she has read will become 75% of the number of pages she has not read. How many pages does the novel have?

Solution:

$$75\% = \frac{75}{100} = \frac{3}{4}$$

1 more page read means 1 fewer page not read

→ Total number of pages remained the same



5 units → 60 pages

1 unit → 12 pages

Total (28 units) → $28 \times 12 = 336$

Ans: The novel has 336 pages.