

1.) Plan: Find how much \$210 is for the 3 days or how much total if earned \$11 per hour?

Option 1 = \$210 per day = per hour

$$\frac{\$210}{3 \text{ days}} = \frac{\$70}{1 \text{ day}} = \frac{\$70}{7 \text{ hrs}} = \boxed{\frac{\$10}{\text{hr}}}$$

Sidework:

Option 2 = $\frac{\$11}{1 \text{ hr}} = \boxed{\$231}$ $\frac{21 \text{ hr}}{7 \text{ hours} * 3 \text{ days}}$

total hours in 3 days

Sidework:

$$\begin{array}{r} 11 \\ * 21 \\ \hline + 220 \\ \hline = 231 \end{array}$$

Then: compare

Option 1 - totals per day

$$\$10 \text{ per day} < \$11 \text{ per hour}$$

Option 2 - total earned over 3 days (21 hours)

$$\$210 < \$231$$

Austin should choose: $\boxed{\$11 \text{ per hour}}$

2.) $\frac{\text{Fiction}}{\text{Non-Fic}} = \frac{5}{3}$

$\frac{5}{3} = \frac{225}{135}$ fiction
 *45

Table:

Fic	5	
Non Fic	3	
Total	8	360

*Use the total to find common number to multiply by:

$8 \overline{) 360}$
 45
 -32
 40
 -40
 0

225 fiction, 135 nonfiction

3a.) red to yellow $\Rightarrow 1:4, 1 \text{ to } 4, \frac{1}{4}$
 *no work needed

b.) Build a table! & c.)

or

make a proportion

Answers

3b.) 12 yellow

3c.) 5 red

red	1	3	4	5
yellow	4	12	16	20
total	5	15	20	25

3b.) $\frac{1}{4} = \frac{\text{red}}{\text{yellow}}$

or $\frac{4 \text{ yellow}}{5 \text{ total}} = \frac{?}{20}$
 *3

3c.) $\frac{1 \text{ red}}{4 \text{ yellow}} = \frac{? \text{ red}}{20 \text{ yellow}}$
 *5

3d.) Table should show relationships:

r	1	2	3	4	5	6
y	4	8	12	16	20	24
total	5	10	15	20	25	30

A incorrect bouquet is
 $\frac{6 \text{ red}}{15 \text{ yellow}}$

*The red flowers match but Rohan must add 9 yellow flowers to make it right.

4.) Using a table will help the most

Amber	3	\$60
Rohan	2	
total \$	5	100

find the total

Amber should get \$60