

each student's name labels the row for their class

Example 2

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1.) Add Clyde's row : $(6 + 11 + 16 + 2) = 35$
(gr.) (br.) (si.) (go.)

Add all column's' numbers or rows ☺

//////	green	bronze	silver	gold	Total
Lauren	4	10	15	6	35
Clyde	6	11	16	2	35
Janelle	2	12	13	8	35
Kelly	7	7	14	7	35
Total	19	40	58	23	140 total medals

clayde's class: $\frac{35 \div 7}{140 \div 7} = \frac{5 \div 5}{20 \div 5} = \frac{1}{4}$ ← benchmark fraction
= 25%

2.) Bronze

$$\begin{array}{r} 10 \\ + 11 \\ + 12 \\ + 7 \\ \hline 40 \end{array}$$

$$\frac{40 \div 20}{140 \div 20} = \boxed{\frac{2}{7}} \text{ fraction}$$

decimal:

0.2857

decimal $\rightarrow$ percent

↳ move decimal 2 places to the right

$$\begin{array}{r} .2857 \\ 7 \overline{) 2.0000} \\ \underline{-14} \downarrow \\ 60 \downarrow \\ \underline{-56} \downarrow \\ 40 \downarrow \\ \underline{-35} \downarrow \\ 50 \downarrow \\ \underline{-49} \\ 1 \end{array}$$

percent

28.57%

or

28.6%

or

297.

non-terminating
so stop here!

3.)

green: 19
gold: 23

Step 1: How many more
is asking you
to find difference

$$23 - 19 = 4 \text{ more}$$

Step 2: $\frac{4}{19} = \frac{x}{100}$

$$\begin{array}{r} 21.05 \\ 19 \overline{) 400.00} \\ \underline{-38} \downarrow \\ 200 \downarrow \\ \underline{-19} \downarrow \\ 100 \downarrow \\ \underline{-95} \\ 5 \end{array}$$

$$\frac{400}{19} = \frac{19x}{19}$$

$$21.05 = x$$

or $\boxed{21\%}$

4.) Lauren's class: $\overset{\text{Silver + Gold}}{15 + 6} = \frac{21}{35} \Rightarrow \frac{3}{5} = \frac{60}{100}$
 $\boxed{60\%}$ Passes!

Clyde's class: $16 + 2 = \frac{18}{35} \Rightarrow \frac{51.4}{35} \overline{) 18.000}$
 $\boxed{51\%}$ Does Not Pass

Janelle's class: $13 + 8 = \frac{21}{35}$ *already found for Lauren
 $\boxed{60\%}$ Passes!

Kelly's class: $14 + 7 = \frac{21}{35}$ *same here!
 $\boxed{60\%}$ Passes!

4.) continued...

Lauren's, Janelle's, and Kelly's classes all pass, but only at the very minimum (least).

Clyde's class does not meet the criterion. His class should get a plan together to encourage the green and bronze students to improve. All classes should work to get higher medals.

~ Any other ideas are welcome :)

5a.)

Options (A) Rooms + resort fee

$$245 * .85 = 208.25 \quad / \quad 208.25 * 1.12 = \$233.24$$

(-.15 as discount)

3 rooms $\rightarrow 233.24 * 3 = \boxed{\$699.72}$ Final Answer

Options (B)

$$\frac{x}{245} = \frac{85}{100}$$

$$\frac{20,825}{100} = \frac{100x}{100}$$

$$\boxed{208.25 = x} \text{ per room ;}$$

step 1

$$\frac{x}{208.25} = \frac{112}{100}$$

$$208.25 * 112 = 100x$$

$$\frac{23,324}{100} = \frac{100x}{100}$$

$$\boxed{\$233.24} = x$$

step 2

step 3 : $233.24 * 3 = \boxed{\$699.72}$ Final Answer

because you're adding

5a.)

Option to Solve : find part and add/subt

$$\begin{array}{r} \textcircled{C} \overset{2}{2} \overset{2}{4} 5 \\ * \quad .15 \rightarrow \\ \hline 1225 \\ 2450 \\ \hline 3675 \end{array}$$

= \$36.75 discount

means subtract

$$\begin{array}{r} \overset{3}{2} \overset{14}{4} \overset{9}{5} . \overset{1}{0} 0 \\ - 36.75 \\ \hline \end{array}$$

\$208.25 $\Rightarrow$

$$\begin{array}{r} 208.25 \\ \times .12 \\ \hline 41650 \\ 208250 \\ \hline 249900 \end{array}$$

resort fee = \$24.99

Add

$$\begin{array}{r} 208.25 \\ + 24.99 \\ \hline \end{array}$$

\$233.24

each room is \$233.24

5b.) Yay! You found the room rate already! 1 night = \$233.24

$$233.24 * 5 = \boxed{\$1,166.20}$$

5c.) Find the amount of tax & resort fee per room after the discount to \$208.25 and then multiply by 16 rooms.

$$\begin{array}{r}
 208.\overset{1}{2}5 \\
 * \quad .12 \quad \text{4 decimal places} \\
 \hline
 41650 \\
 + 208250 \\
 \hline
 249900
 \end{array}$$

← \$ for tax & fee

put them back

$$\$24.99 * 16 = \begin{array}{r} \$24.99 \\ * 16 \\ \hline 14994 \\ 24990 \\ \hline 39984 \end{array} = \boxed{\$399.84}$$

from tax & resort fees