

1.) $\frac{750}{1} \cdot \frac{2}{25} = \frac{30}{1} \cdot \frac{2}{1} = 60 \text{ students}$
 (number who make it to try out)

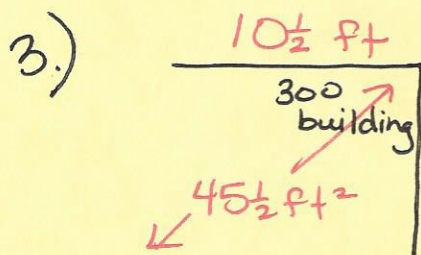


these are only who try out, now find section who actually makes it...

$\frac{60}{1} \cdot \frac{5}{12} = \frac{5}{1} \cdot \frac{5}{1} = \boxed{25 \text{ students}}$
 (make the show)

2.) $28 \text{ hours} \div 1\frac{3}{4} \text{ (per person)} = \boxed{16 \text{ teachers}}$
 needed

$\frac{28}{1} \div 1\frac{3}{4} \Rightarrow \frac{28}{1} \div \frac{7}{4} = \frac{28}{1} \cdot \frac{4}{7} = \frac{4}{1} \cdot \frac{4}{1} = 16$
 (cloud around $\div \frac{7}{4}$)
 (vertical text: KEEP, CHANGE, FLIP)



$\boxed{4\frac{1}{3} \text{ ft high}}$

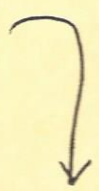
$45\frac{1}{2} \div 10\frac{1}{2}$



$\frac{91}{2} \div \frac{21}{2}$

$\frac{91}{2} \cdot \frac{2}{21} = \frac{91}{1} \cdot \frac{1}{21} = \frac{91}{21} \rightarrow 4\frac{7}{21} = 4\frac{1}{3}$
 (vertical text: KEEP, CHANGE, FLIP)
 (vertical text: simplify!)

4a.) $\frac{18}{1} \cdot \frac{1}{5} =$ amount of time for performances

$$\frac{18}{1} \cdot \frac{1}{5} = \frac{18}{5}$$


+ (not done!)

common denominator

$$\frac{18}{5} + \frac{1}{3} = \frac{18 \cdot 3}{5 \cdot 3} = \frac{54}{15}$$

$$+ \frac{1 \cdot 5}{3 \cdot 5} = + \frac{5}{15}$$

$$\frac{59}{15} = 3 \frac{14}{15}$$

hours

$3 \frac{14}{15}$ or 3 hours 56 minutes
hours

convert
to
minutes

$$\frac{14}{15} \cdot \frac{60}{1} = 56 \text{ minutes}$$

4b.)

Way #1 - use fractions all the way through as shown above

Way #2 - convert all fractions into minutes

$$\frac{1}{5} \text{ hour} = \frac{1}{5} \cdot \frac{60}{1} = \frac{60}{5} = 12 \text{ min}$$

$$\frac{1}{3} \text{ hour} = \frac{1}{3} \cdot \frac{60}{1} = \frac{60}{3} = 20 \text{ min}$$

$$\begin{array}{r} 18 \text{ groups} * 12 \text{ min} = 216 \text{ minutes} \\ + 20 \text{ min (interm)} \\ \hline 236 \text{ minutes} \end{array}$$

$$236 \div \underset{\substack{\text{(min in} \\ \text{1 hour)}}}{60} = 3 \text{ hrs } 56 \text{ minutes}$$

5 a.) 2 parts: opening + intermission

step 1: opening $\Rightarrow$ given 84 items

step 2: $84 \cdot 3\frac{1}{4} = \frac{84}{1} \cdot \frac{13}{4} = \text{span style="border: 1px solid black; padding: 2px;">273 items$

(inter)

step 3: add opening and intermission

$$273 + 84 = \begin{array}{r} 273 \\ + 84 \\ \hline 357 \end{array} \quad \text{span style="border: 1px solid black; padding: 2px;">357 items$$

5 b.) ^{step 1:} $84 \cdot \$1 = \84 at opening

step 2: $273 \cdot \$0.50 = \begin{array}{r} 273 \\ * 0.5 \\ \hline \$136.50 \end{array}$

(price cut)

or

$$\frac{273}{1} \cdot \frac{1}{2} = \frac{273}{2} = 2 \overline{) 136\frac{1}{2}} \text{ or } 136.5$$

$$\begin{array}{r} 136\frac{1}{2} \text{ or } 136.5 \\ 2 \overline{) 273} \\ \underline{-21} \\ 07 \\ \underline{-6} \\ 13 \\ \underline{-12} \\ 1 \end{array}$$

step 3: $\begin{array}{r} 136.50 \\ + 84.00 \\ \hline 220.50 \end{array}$

\$220.50
total sales