

Proportions

Solve each of the following on looseleaf
Show all your work. Ex: $\frac{x}{15} = \frac{12}{9}$

Ⓢ $\frac{x}{6} = \frac{7}{2}$

ⓔ $\frac{a}{8} = \frac{4}{3}$

Ⓨ $\frac{2}{9} = \frac{t}{4}$

ⓐ $\frac{8}{11} = \frac{3}{2y}$

ⓖ $\frac{1}{6x} = \frac{4}{15}$

Ⓢ $\frac{k+5}{7} = \frac{5}{3}$

ⓑ $\frac{x-4}{2} = \frac{x+1}{9}$

Ⓝ $\frac{7}{d+5} = \frac{10}{d+2}$

Ⓐ $\frac{x}{4} = \frac{2x+3}{15}$

Ⓜ $\frac{21}{y-8} = 3$

Ⓡ $\frac{17-4x}{12} = 5$

Ⓣ $\frac{11u}{6} = u + 14$

Ⓓ $\frac{2n+3}{4} = \frac{5n-1}{6}$

Ⓛ $\frac{15}{8x-3} = \frac{1}{2+2x}$

$$\begin{aligned} \frac{x}{15} &= \frac{12}{9} \\ 9x &= 180 \\ \frac{9x}{9} &= \frac{180}{9} \\ x &= 20 \end{aligned}$$

$$\begin{aligned} \frac{x+2}{3} &= \frac{x}{9} \\ 9(x+2) &= 3x \\ 9x+18 &= 3x \\ -9x & \quad -9x \\ \hline 18 &= -6x \\ -6 & \quad -6 \\ \hline x &= -3 \end{aligned}$$

due at end
of the hour.

Reminders

1. Your project is due Monday. Check MI-Star after school for your test grade. Students who score 90% or above may opt out of the project.
2. As with first semester projects, each day late is a 10% reduction in score. If you are in the building at all Monday, you must turn it in.