

1/24

Homework Corrections  
p74

$$\textcircled{3} \quad \frac{1}{4} \times \frac{7}{3} + \frac{7}{9} \times \frac{3}{2} - \frac{19}{20}$$

$$= \frac{1 \times 7}{4 \times 3} + \frac{7}{9} \times \frac{3}{2} - \frac{19}{20}$$

$$= \frac{7}{12} + \frac{7 \times \cancel{3}}{\cancel{3} \times 9} \times \frac{\cancel{3}}{2} - \frac{19}{20}$$

$$= \frac{7}{12} + \frac{7}{3} \times \frac{1}{2} - \frac{19}{20}$$

$$= \frac{7}{12} + \frac{7 \times 1}{3 \times 2} - \frac{19}{20}$$

CD = 12 =

$$\frac{7}{12} + \frac{7 \times 2}{6 \times 2} - \frac{19}{20}$$

$$= \frac{7}{12} + \frac{14}{12} - \frac{19}{20}$$

$$= \frac{7+14}{12} - \frac{19}{20}$$

$$= \frac{21 \times 5}{12 \times 5} - \frac{19 \times 3}{20 \times 3} \quad \text{CD} = 60$$

$$= \frac{105}{60} - \frac{57}{60}$$

$$= \frac{105 - 57}{60}$$

$$= \frac{48 \div 12}{60 \div 12}$$

$$= \frac{4}{5}$$

$$\begin{array}{r} 21 \\ \times 5 \\ \hline 105 \\ \times 12 \\ \hline 420 \\ \hline 1050 \end{array}$$

$$\begin{array}{r} 9 \ 15 \\ - 105 \\ \hline 57 \\ - 57 \\ \hline 0 \end{array}$$

⑦

CD = 12 or 24

$$\left( \frac{5 \times 2}{6 \times 2} - \frac{3 \times 3}{4 \times 3} \right)^2 \div \frac{2}{3}$$

$$= \left( \frac{10}{12} - \frac{9}{12} \right)^2 \div \frac{2}{3}$$

$$= \left( \frac{10-9}{12} \right)^2 \div \frac{2}{3}$$

$$= \left( \frac{1}{12} \right)^2 \div \frac{2}{3}$$

$$= \frac{1^2}{12^2} \div \frac{2}{3}$$

$$= \frac{1}{144} \div \frac{2}{3}$$

$$= \frac{1}{48} \times \frac{3}{2}$$

$$= \frac{1 \times 1}{48 \times 2}$$

$$= \frac{1}{96}$$

$$\begin{array}{r} 48 \\ 3 \overline{) 144} \\ \underline{-12} \phantom{0} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

$$\begin{aligned} \textcircled{9} & \left(\frac{5}{6}\right)^2 \times \left(\frac{3}{5}\right)^3 \\ &= \frac{5^2}{6^2} \times \frac{3^3}{5^3} \\ &= \frac{\cancel{1} \cancel{25} \cancel{25}}{\cancel{4} \cancel{36} \cancel{9}} \times \frac{\cancel{3} \cancel{27} \cancel{9}}{\cancel{5} \cancel{125} \cancel{25}} \\ &= \frac{1}{4} \times \frac{3}{5} \\ &= \frac{1 \times 3}{4 \times 5} \\ &= \frac{3}{20} \end{aligned}$$

Tuesday, Nov 24<sup>th</sup>

## Solving Equations w/ Fractions

ex

$$\frac{x}{5} = \frac{10}{2}$$

Cross Multiply

$$(\text{num. \#1})(\text{denom \#2}) = (\text{denom \#1})(\text{num \#2})$$

$$(x)(2) = (5)(10)$$

$$2x = 50$$

2 multiplied by what will give us 50?

$$x = 50 \div 2$$

$$x = 25$$

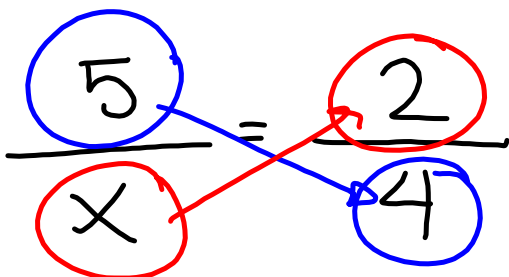
ex #2

$$\frac{x}{3} = \frac{2}{1}$$

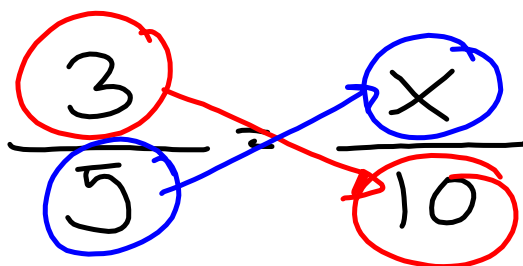
$$(x)(1) = (3)(2)$$

$$x = 6$$

ex #3


$$\frac{5}{x} = \frac{2}{4}$$
$$(5)(4) = (x)(2)$$
$$20 = 2x$$
$$x = \frac{20}{2}$$
$$x = 10$$

ex#4



$$(3)(10) = (5)(x)$$

$$30 = 5x$$

$$x = 30 \div 5$$

$$x = 6$$

#/w p75 all