U3D3_T - Solving Equations with Fractions I

Monday, March 5, 2018 1:39 PM



U3D5_T - Solving Eq...

U3D5 Unit 3 - Equations

Day 5 - Solving Equations with Fractions Part 1

Warm Up:

a)
$$\frac{x}{2000} = \frac{16}{100}$$
b) $\frac{15}{100} = \frac{18}{x}$
 $\frac{x}{2000} \times \frac{2000}{100} = \frac{1100}{15} = \frac{x}{18}$
 $\frac{x}{18} = \frac{100}{15}$
 $\frac{x}{18} = \frac{100}{15} \times \frac{18}{15}$
 $\frac{x}{18} \times \frac{18}{15} = \frac{100}{15} \times \frac{18}{15}$

Calculator aduce

(or cross radice
 $x = 120$

Example 1: Solve the following:

a)
$$-14 = \frac{2}{5}(h-3)$$

 $-14 \times 2h-6$
 -14

b)
$$15 = \frac{3(v+7)}{2}$$

LS

RS

 $\frac{15}{1} \times \frac{3v+21}{2}$
 $3v+21 = 30$
 $3v+21 = 30 - 21$
 $\frac{3v}{3} = \frac{9}{3}$
 $v=3$

c)
$$\frac{-8}{5} = \frac{-4(x-1)}{7}$$
 $\frac{-8}{5} \times \frac{-4x+4}{7}$
 $\frac{-20x+20}{-20x+20-20} = \frac{-56}{-20}$
 $\frac{-20x}{-20} = \frac{-76}{-20}$
 $x = \frac{76}{20}$
 $x = \frac{19}{5}$

$$\frac{5}{3}(8-2x) = 10x$$

$$\frac{5}{3}(8-2(1)) = 10(1)$$

$$\frac{10}{3} \times \frac{10}{1} = \frac{5}{3}.60$$

$$30x = 40 - 10x$$

$$\frac{10}{3} \times \frac{10}{1} = \frac{30}{3}$$

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$$\frac{10}{3} \times \frac{10}{3} = \frac{40}{40}$$

$$\frac{10}{40} = \frac{40}{40}$$

$$\frac{10}{40} = \frac{40}{40}$$

U3D5 Practice: Pg. 208-209 #1, 3ac, 4ac, 5 - 8