Algebra I

11-7

Multiplying and Dividing with Radicals

Multiplying Radicals - $(3\sqrt{2})(4\sqrt{7})$ 2) 12514 b) 44,90 Dividing Radicals -15/124 = 15/4 = 15.2 715

Simplifying Radicals -

$$J_{12} = J_{4.3} = 2J_{3}$$

2) No Fractions allowed under the radical. $\int_{\frac{3}{4}}^{\frac{3}{4}} = \frac{\sqrt{3}}{\sqrt{4}} = \frac{\sqrt{3}}{2}$

3) No radicals allowed in the denominator (bottom of a Fraction)

Simplify. For each do part (pg 538) a) simplified,

b) as a decimal to the nearest hundredth.

Simplify. For each do part

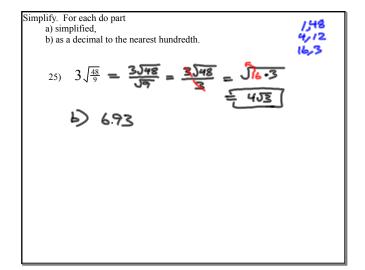
b) as a decimal to the nearest hundredth.

Simplify. For each do part

a) simplified,

b) as a decimal to the nearest hundredth.

21)
$$\sqrt{\frac{105}{13}} \cdot \sqrt{\frac{1}{2}} = \frac{\sqrt{5}\sqrt{13}}{\sqrt{3}\sqrt{13}} = \frac{\sqrt{65}}{13}$$



Simplify. (no part b)

33)
$$(4\sqrt{a^2b})(3\sqrt{b})$$

12 $\sqrt{a^2b^2}$

12 $\sqrt{a^2b^2}$

Simplify. (no part b)

41)
$$\sqrt{32} \cdot \sqrt{2x} \cdot \sqrt{3x}$$
 $\sqrt{32} \cdot \sqrt{3} \cdot \sqrt{3}$

8 | x | J | 3

