

Warm Up: simplify.

$$2\sqrt{5} \cdot -6\sqrt{8}$$

$$-12\sqrt{40}$$

$\sqrt{40} = \sqrt{2 \cdot 2 \cdot 2 \cdot 5}$
 $\sqrt{2 \cdot 2 \cdot 2 \cdot 5} = 2\sqrt{10}$

$$-24\sqrt{10}$$

$$\frac{-4\sqrt{8}}{6\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}}$$

$$\frac{-4\sqrt{40}}{30} \cdot 2\sqrt{10}$$

$$\frac{-8\sqrt{10}}{30}$$

$$\frac{-4\sqrt{10}}{15}$$

$$\sqrt{5} \cdot \sqrt{5} = 5$$

$$\frac{\sqrt{2}}{\sqrt{3}} \cdot \frac{\sqrt{6}}{\sqrt{8}} = \frac{\sqrt{12}}{\sqrt{24}}$$

$$\frac{\sqrt{1}}{\sqrt{2}} = \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$$

$$\frac{\sqrt{2}}{2}$$

$$\sqrt{\frac{64}{49}} = \frac{8}{7}$$

$$\frac{4\sqrt{2}}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{4\sqrt{6}}{3} = \frac{4}{3}\sqrt{6}$$

$$\frac{\sqrt{5}}{3\sqrt{6}} \cdot \frac{\sqrt{6}}{\sqrt{6}} = \frac{\sqrt{30}}{18}$$

$$\frac{10\sqrt{3}}{5\sqrt{9}} = \frac{2\sqrt{3}}{3}$$

$$\begin{array}{r} 30 \\ 2 \overline{) 15} \\ 3 \overline{) 5} \\ 1 \end{array}$$

review homework

37. $\frac{7\sqrt{3}}{4}$

42. $\frac{\sqrt{11}}{11}$ **43.** $\frac{\sqrt{10x}}{4x}$ **44.** $\frac{3\sqrt{10}}{5}$ **45.** $2\sqrt{11}$

51. not simplest form; radical in the denominator of a fraction

52. Simplest form; radicand has no perfect-square factors other than 1.

53. Simplest form; radicand has no perfect-square factors other than 1.

Snowball Fight

1	2
3	4
5	6
7	8
9	10

You will turn this in!
You need to
complete at least 8!