

12.16.15

Unit Exam tomorrow (with one slot question).

Multiply then simplify or simplify then multiply.

$$4\sqrt{8} (5\sqrt{48} - 6\sqrt{99})$$
$$\downarrow \quad \downarrow \quad \downarrow$$
$$4\sqrt{4}\sqrt{2} (5\sqrt{4}\sqrt{12} - 6\sqrt{9}\sqrt{11})$$
$$\downarrow \quad \downarrow \quad \downarrow$$
$$4 \cdot 2\sqrt{2} (5 \cdot 2\sqrt{12} - 6 \cdot 3\sqrt{11})$$
$$\underline{8\sqrt{2} (10\sqrt{12} - 18\sqrt{11})}$$

$$80\sqrt{24} - 144\sqrt{22}$$
$$\downarrow \quad \downarrow$$
$$80\sqrt{4}\sqrt{6} - 144\sqrt{22}$$
$$80 \cdot 2\sqrt{6}$$

$$160\sqrt{6} - 144\sqrt{22}$$

$$4\sqrt{8}(5\sqrt{48} - 6\sqrt{99})$$

$$20\sqrt{384} - 24\sqrt{72}$$

$$20\sqrt{64 \cdot 6} - 24\sqrt{9 \cdot 8}$$

$$20 \cdot 8 - 24 \cdot 3\sqrt{88}$$

$$20\sqrt{6} - 72\sqrt{88}$$

$$\downarrow \quad 72 \cdot 2\sqrt{22}$$

$$20\sqrt{6} - 144\sqrt{22}$$