IM3 Name_____ ID: 1

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REVIEW WKST MULTIPLYING AND DIVIDING RADICALS

Period____

Simplify.

1) $-\sqrt{3} \cdot \sqrt{5}$

2) $\sqrt{8} \cdot \sqrt{6}$

3) $\sqrt{10} \cdot 4\sqrt{6}$

4) $\sqrt{8} \cdot 5\sqrt{2}$

5) $-2\sqrt{15}\left(4\sqrt{5} - 4\sqrt{6}\right)$

6) $\sqrt{2}\left(-3\sqrt{2} + \sqrt{10}\right)$

7) $-5\sqrt{15}\left(3\sqrt{6} + 4\sqrt{2}\right)$

8) $-2\sqrt{3}\left(5\sqrt{2} + 5\right)$

9) $\left(\sqrt{5} + \sqrt{2}\right)^2$

10) $\left(-3 - 5\sqrt{5}\right)\left(2 + \sqrt{5}\right)$

11) $\left(-4\sqrt{2} - 3\sqrt{5}\right)\left(-\sqrt{2} + 3\sqrt{5}\right)$

12) $\left(3 - 2\sqrt{2}\right)\left(-1 + \sqrt{2}\right)$

13) $\dfrac{5\sqrt{16}}{3\sqrt{20}}$

14) $\dfrac{2\sqrt{5}}{5\sqrt{2}}$

15) $\dfrac{4 + \sqrt{2}}{5\sqrt{14}}$

16) $\dfrac{4 - \sqrt{5}}{2\sqrt{14}}$

17) $\dfrac{\sqrt{3}}{4 + \sqrt{3}}$

18) $\dfrac{2}{2\sqrt{2} - 3}$

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