1. $\sqrt{289b^{14}}$

2. $\sqrt[3]{125g^{24}}$

3. $\sqrt[4]{81}w^{20}x^{44}$

4. $\sqrt{92a^7}$

5. ³√128*k*¹¹

6. $\sqrt{13} \cdot \sqrt{7}$

7. $\sqrt{20} \cdot \sqrt{20}$

8. $\sqrt{10} \cdot \sqrt{35}$

9. $\sqrt{18m^7p^3} \cdot \sqrt{30m^8p^{13}}$

Algebra 1 Bellwork Friday, May 15, 2015 Answers Simplify each. Make sure answers don't have any exponents that are zero or negative.

 $1. \sqrt{289b^{14}}$ $= \sqrt{| | | | | |}$

 $= \frac{3125g^{24}}{5g^{8}}$

3. $\sqrt[4]{81w^{20}x^{44}}$

- 4. $\sqrt{92a^7}$ 4.23 $2a^3\sqrt{23}a$
- 5. $\sqrt[3]{128k^{11}}$ 64.2 $= \left[4 \times^{3} \sqrt[3]{2 \times^{2}}\right]$
- $6. \sqrt{13} \cdot \sqrt{7} = \sqrt{9}$

 $7. \sqrt{20} \cdot \sqrt{20}$ $= \boxed{20}$

- 8. $\sqrt{10} \cdot \sqrt{35}$ $= \sqrt{350}$ $= \sqrt{25.14}$ = |5| |14|
- 9. $\sqrt{18m^7p^3} \cdot \sqrt{30m^8p^{13}}$ $= \sqrt{540m^5p^{16}}$ $\frac{36.15}{16m^7p^8\sqrt{15m^9p^{16}}}$