

Name: \_\_\_\_\_

## Simplifying Radicals

Write each radical expression in the simplest form.

1)  $\sqrt[3]{-24}$

\_\_\_\_\_

2)  $-3\sqrt{150}$

\_\_\_\_\_

3)  $\sqrt{225}$

\_\_\_\_\_

4)  $5\sqrt{432}$

\_\_\_\_\_

5)  $\sqrt[3]{128}$

\_\_\_\_\_

6)  $\sqrt[3]{343}$

\_\_\_\_\_

7)  $-2\sqrt{18}$

\_\_\_\_\_

8)  $\sqrt[3]{108}$

\_\_\_\_\_

9)  $2\sqrt[3]{512}$

\_\_\_\_\_

10)  $\sqrt{361}$

\_\_\_\_\_

11)  $\sqrt{98}$

\_\_\_\_\_

12)  $-6\sqrt{75}$

\_\_\_\_\_

**Simplifying Radicals**

Write each radical expression in the simplest form.

1)  $\sqrt[3]{-24}$

$$\underline{-2\sqrt[3]{3}}$$

2)  $-3\sqrt{150}$

$$\underline{-15\sqrt{6}}$$

3)  $\sqrt{225}$

$$\underline{15}$$

4)  $5\sqrt{432}$

$$\underline{60\sqrt{3}}$$

5)  $\sqrt[3]{128}$

$$\underline{4\sqrt[3]{2}}$$

6)  $\sqrt[3]{343}$

$$\underline{7}$$

7)  $-2\sqrt{18}$

$$\underline{-6\sqrt{2}}$$

8)  $\sqrt[3]{108}$

$$\underline{3\sqrt[3]{4}}$$

9)  $2\sqrt[3]{512}$

$$\underline{16}$$

10)  $\sqrt{361}$

$$\underline{19}$$

11)  $\sqrt{98}$

$$\underline{7\sqrt{2}}$$

12)  $-6\sqrt{75}$

$$\underline{-30\sqrt{3}}$$