

EXAMPLES - Simplifying Square or Cube Roots

Date _____ Period _____

Simplify.

1) $\sqrt{18}$

2) $\sqrt{125}$

3) $\sqrt{150}$

4) $\sqrt{175x^2}$

5) $\sqrt{256x^3}$

6) $\sqrt{20p}$

$$7) \sqrt{63v^3}$$

$$8) \sqrt[3]{24}$$

$$9) \sqrt[3]{250}$$

$$10) \sqrt[3]{192}$$

$$11) \sqrt[3]{216r^3}$$

$$12) \sqrt[3]{16x^7}$$

$$13) \sqrt[3]{162b^6}$$

EXAMPLES - Simplifying Square or Cube Roots

Date _____ Period _____

Simplify.

1) $\sqrt{18}$
 $3\sqrt{2}$

2) $\sqrt{125}$
 $5\sqrt{5}$

3) $\sqrt{150}$
 $5\sqrt{6}$

4) $\sqrt{175x^2}$
 $5x\sqrt{7}$

5) $\sqrt{256x^3}$
 $16x\sqrt{x}$

6) $\sqrt{20p}$
 $2\sqrt{5p}$

$$7) \frac{\sqrt{63v^3}}{3v\sqrt{7v}}$$

$$8) \frac{\sqrt[3]{24}}{2\sqrt[3]{3}}$$

$$9) \frac{\sqrt[3]{250}}{5\sqrt[3]{2}}$$

$$10) \frac{\sqrt[3]{192}}{4\sqrt[3]{3}}$$

$$11) \frac{\sqrt[3]{216r^3}}{6r}$$

$$12) \frac{\sqrt[3]{16x^7}}{2x^2\sqrt[3]{2x}}$$

$$13) \frac{\sqrt[3]{162b^6}}{3b^2\sqrt[3]{6}}$$

Simplifying Cube Roots - Homework

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Simplify.

1) $\sqrt[3]{-162p^8}$

2) $\sqrt[3]{32a^8}$

3) $\sqrt[3]{162x^2}$

4) $\sqrt[3]{448x^5y^5}$

5) $\sqrt[3]{750n^2}$

6) $\sqrt[3]{108a^7b^3}$

7) $\sqrt[3]{32u^4v^3}$

8) $\sqrt[3]{384}$

9) $\sqrt[3]{-189n^6}$

10) $\sqrt[3]{216v^5}$

11) $\sqrt[3]{-56xy^5}$

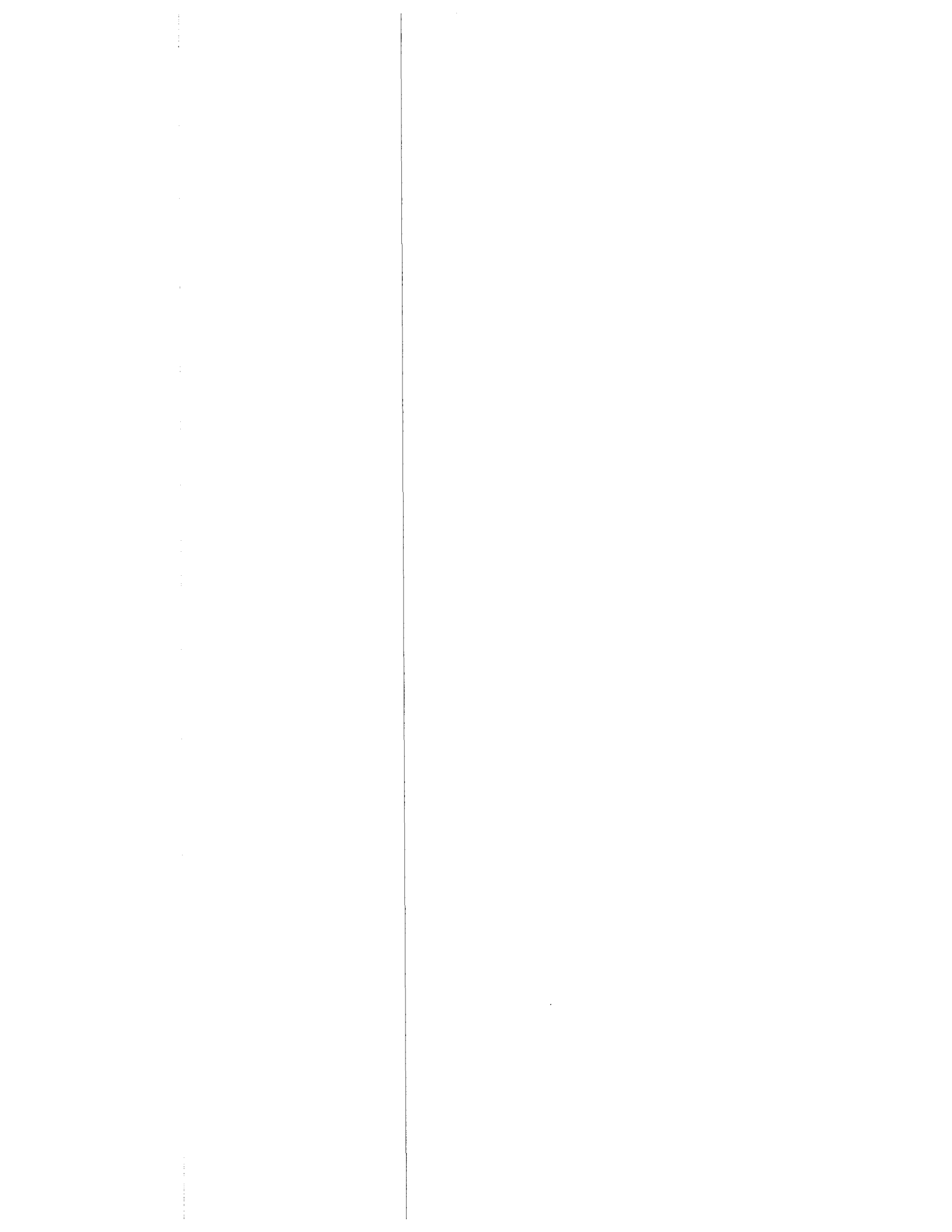
12) $\sqrt[3]{216x^6}$

13) $\sqrt[3]{216p^3}$

14) $\sqrt[3]{32a^2b^3c}$

15) $\sqrt[3]{64h^6j^7k^2}$

16) $\sqrt[3]{375x^5}$



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Simplify.

1) $\sqrt[3]{-162p^8}$

2) $\sqrt[3]{32a^8}$ $2a^2 \sqrt[3]{4a^2}$

3) $\sqrt[3]{162x^2}$

4) $\sqrt[3]{448x^5y^5}$ $4xy \sqrt[3]{7x^2y^2}$

5) $\sqrt[3]{750n^2}$

6) $\sqrt[3]{108a^7b^3}$ $3a^2b \sqrt[3]{4a}$

7) $\sqrt[3]{32u^4v^3}$

8) $\sqrt[3]{384}$ $4 \sqrt[3]{6}$

9) $\sqrt[3]{-189n^6}$

10) $\sqrt[3]{216v^5}$ $6v \sqrt[3]{v^2}$

11) $\sqrt[3]{-56xy^5}$

12) $\sqrt[3]{216x^6}$ $6x^2$

13) $\sqrt[3]{216p^3}$

14) $\sqrt[3]{32a^2b^3c}$ $2b \sqrt[3]{4a^2c}$

15) $\sqrt[3]{64h^6j^7k^2}$

16) $\sqrt[3]{375x^5}$ $5x \sqrt[3]{3x^2}$

