

Student Name: _____

Score: _____

Write the Radicand and Index

$$\sqrt{5}$$

Radicand = _____

Index = _____

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

Radicand = _____

Index = _____

$$\sqrt{11}$$

Radicand = _____

Index = _____

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

Radicand = _____

Index = _____

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Simplify the Radicals

1) $\sqrt{324} =$

2) $12\sqrt{32} =$

3) $\sqrt{243} =$

4) $\sqrt{144} =$

5) $\sqrt{36} =$

6) $\sqrt{25} =$

7) $\sqrt{125} =$

8) $\sqrt{28} =$

9) $8\sqrt{320} =$

10) $11\sqrt{300} =$



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Simplifying Radical Expressions

Simplify each Radical Expression. If necessary use absolute value signs.

1) $\sqrt[3]{54y^2}$

6) $\sqrt{9}$

2) $\sqrt{75n^5z}$

7) $\sqrt{162}$

3) $\sqrt{49}$

8) $\sqrt[3]{375c^7}$

4) $\sqrt{98b}$

9) $\sqrt{16h^2}$

5) $\sqrt[3]{24p^7q^2}$

10) $\sqrt[3]{189}$



Simplifying Radicals Worksheet 1

Simplify.

1) $\sqrt{75}$

2) $\sqrt{16}$

3) $\sqrt{36}$

4) $\sqrt{64}$

5) $\sqrt{80}$

6) $\sqrt{30}$

7) $\sqrt{8}$

8) $\sqrt{18}$

9) $\sqrt{32}$

10) $\sqrt{12}$

11) $\sqrt{8}$

12) $\sqrt{108}$

13) $\sqrt{125}$

14) $\sqrt{50}$

15) $\sqrt{175}$

16) $\sqrt{28}$

17) $\sqrt{45}$

18) $\sqrt{72}$

19) $\sqrt{20}$

20) $\sqrt{150}$

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Rationalize the Denominator

Problems

Work Space

$$\frac{1}{\sqrt{3}}$$

Answer:

$$\frac{3}{\sqrt{5}}$$

Answer:

$$\frac{\sqrt{2}}{\sqrt{3}}$$

Answer:

$$\frac{1}{2\sqrt{2}}$$

Answer:

$$\frac{7}{\sqrt{11}}$$

Answer:

