Algebra I Lesson #1 Unit 13 Class Worksheet #1 For Worksheets #1 - #3

Definition:

Definition: <u>a</u> is a <u>square root</u> of <u>b</u>

Definition: <u>a</u> is a <u>square root</u> of <u>b</u> if and only if

Definition: <u>a</u> is a <u>square root</u> of <u>b</u> if and only if a^2

Definition: <u>a</u> is a <u>square root</u> of <u>b</u> if and only if $a^2 = b$.

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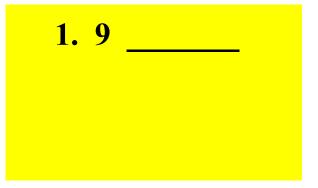
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List all square roots of each of the following.

1. 9 _____ 2. 49 _____

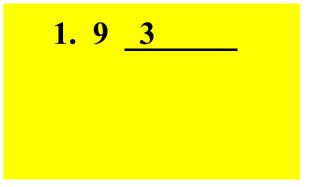
Definition: <u>a</u> is a <u>square root</u> of <u>b</u> if and only if $a^2 = b$.



2. 49

Definition: <u>a</u> is a <u>square root</u> of <u>b</u> if and only if $a^2 = b$.

List all square roots of each of the following.



2. 49

Definition: <u>a</u> is a <u>square root</u> of <u>b</u> if and only if $a^2 = b$.

1. 9 3
 2. 49

 Since
$$3^2 = 9$$

Definition: <u>a</u> is a <u>square root</u> of <u>b</u> if and only if $a^2 = b$.

1. 9 3 or -3
 2. 49

 Since
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$$3^2 = 9$$

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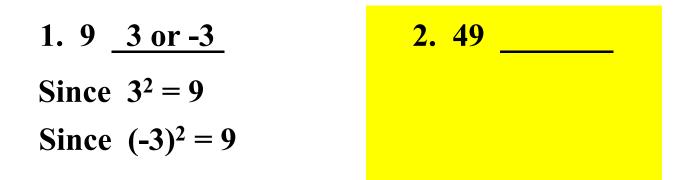
2. 49

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1. 9 <u>3 or -3</u> Since $3^2 = 9$ Since $(-3)^2 = 9$

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1. 9 <u>3 or -3</u>	2. 49 <u>7</u>
Since $3^2 = 9$	Since $7^2 = 49$
Since $(-3)^2 = 9$	

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Every positive real number has 2 real number square roots.

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The radical symbol

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The radical symbol is used to indicate the <u>principal</u> (or non-negative)

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The radical symbol is used to indicate the <u>principal</u> (or non-negative) square root of a number.

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$$\sqrt{9} =$$

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The radical symbol is used to indicate the <u>principal</u> (or non-negative) square root of a number. Therefore,

$$\sqrt{9} =$$

'the principal square root of 9'

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List all square roots of each of the following.

Every positive real number has 2 real number square roots.

The radical symbol is used to indicate the <u>principal</u> (or non-negative) square root of a number. Therefore,

$$\sqrt{9} = 3$$

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 and $\sqrt{49} =$

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 and $\sqrt{49} =$

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$$\sqrt{9} = 3$$
 and $\sqrt{49} = 7$

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The radical symbol is used to indicate the <u>principal</u> (or non-negative) square root of a number. Therefore,

$$\sqrt{9} = 3$$
 and $\sqrt{49} = 7$

1.
$$\sqrt{16} =$$
 2. $\sqrt{81} =$
3. $\sqrt{144} =$ 4. $\sqrt{400} =$

Evaluate each of the following square roots.

1.
$$\sqrt{16} =$$
 2. $\sqrt{81} =$
3. $\sqrt{144} =$ 4. $\sqrt{400} =$

Evaluate means to find the value of.

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Evaluate each of the following square roots.

1.
$$\sqrt{16} =$$
 2. $\sqrt{81} =$
3. $\sqrt{144} =$ 4. $\sqrt{400} =$

The principal square root of 16.

Evaluate each of the following square roots.

The principal square root of 16.

Evaluate each of the following square roots.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
2. $\sqrt{81} = _____
3. $\sqrt{144} = _____$
4. $\sqrt{400} = _____$$

The principal square root of 16.

1.
$$\sqrt{16} = 4$$
 2. $\sqrt{81} = 6$

3.
$$\sqrt{144} =$$
 4. $\sqrt{400} =$

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 4$
4. $\sqrt{400} = 4$

Evaluate each of the following square roots.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 4$
4. $\sqrt{400} = 1$

The principal square root of 81.

Evaluate each of the following square roots.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
2. $\sqrt{81} = 9$
3. $\sqrt{144} = 4$
4. $\sqrt{400} = 1$

The principal square root of 81.

Evaluate each of the following square roots.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 4$
4. $\sqrt{400} = 4$

The principal square root of 81.

Evaluate each of the following square roots.

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1.
$$\sqrt{16} = 4$$
 2. $\sqrt{81} = 9$
Since $4^2 = 16$ Since $9^2 = 81$

3.
$$\sqrt{144} =$$
 4. $\sqrt{400} =$

r

1.
$$\sqrt{16} = 4$$
 2. $\sqrt{81} = 9$
Since $4^2 = 16$ Since $9^2 = 81$

4.
$$\sqrt{400} =$$

Evaluate each of the following square roots.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 4$
4. $\sqrt{400} = 6$

The principal square root of 144.

Evaluate each of the following square roots.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 12$
4. $\sqrt{400} = 12$

The principal square root of 144.

Evaluate each of the following square roots.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 12$
Since $12^2 = 144$
2. $\sqrt{81} = 9$
Since $9^2 = 81$
4. $\sqrt{400} = 12$

The principal square root of 144.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 12$
Since $12^2 = 144$
2. $\sqrt{81} = 9$
Since $9^2 = 81$
4. $\sqrt{400} = 12$

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$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 12$
Since $12^2 = 144$
2. $\sqrt{81} = 9$
Since $9^2 = 81$
4. $\sqrt{400} = 12$

Evaluate each of the following square roots.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 12$
Since $12^2 = 144$
2. $\sqrt{81} = 9$
Since $9^2 = 81$
4. $\sqrt{400} = 12$

The principal square root of 400.

Evaluate each of the following square roots.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 12$
Since $12^2 = 144$
2. $\sqrt{81} = 9$
Since $9^2 = 81$
4. $\sqrt{400} = 20$

The principal square root of 400.

Evaluate each of the following square roots.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 12$
Since $12^2 = 144$
2. $\sqrt{81} = 9$
Since $9^2 = 81$
4. $\sqrt{400} = 20$
Since $20^2 = 400$

The principal square root of 400.

1.
$$\sqrt{16} = 4$$

Since $4^2 = 16$
3. $\sqrt{144} = 12$
Since $12^2 = 144$
2. $\sqrt{81} = 9$
Since $9^2 = 81$
4. $\sqrt{400} = 20$
Since $20^2 = 400$

Standard Radical Form

Standard Radical Form

The principal square root of N:

Standard Radical Form

The principal square root of N: \sqrt{N}

Standard Radical Form

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The number N is called the <u>radicand</u>.

Standard Radical Form

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We will consider problems in which the radicand is a whole number.

Standard Radical Form

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We will consider problems in which the radicand is a whole number. If the radicand is not a perfect square

Standard Radical Form

The principal square root of N: \sqrt{N}

The number N is called the <u>radicand</u>.

We will consider problems in which the radicand is a whole number. If the radicand is not a perfect square and does not have any perfect square factors (greater than 1),

Standard Radical Form

The principal square root of N: \sqrt{N}

The number N is called the <u>radicand</u>.

We will consider problems in which the radicand is a whole number. If the radicand is not a perfect square and does not have any perfect square factors (greater than 1), then the expression is said to be in 'standard radical form'.

Standard Radical Form

The principal square root of N: \sqrt{N}

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The principal square root of N: \sqrt{N}

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$$\sqrt{5}$$

Standard Radical Form

The principal square root of N: \sqrt{N}

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$$\sqrt{5}$$
 $\sqrt{6}$

Standard Radical Form

The principal square root of N: \sqrt{N}

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$$\sqrt{5}$$
 $\sqrt{6}$ $\sqrt{15}$

Standard Radical Form

The principal square root of N: \sqrt{N}

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$$\sqrt{5}$$
 $\sqrt{6}$ $\sqrt{15}$ $\sqrt{42}$

Standard Radical Form

The principal square root of N: \sqrt{N}

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$$\sqrt{5}$$
 $\sqrt{6}$ $\sqrt{15}$ $\sqrt{42}$ $\sqrt{61}$

Standard Radical Form

The principal square root of N: \sqrt{N}

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$$\sqrt{5}$$
 $\sqrt{6}$ $\sqrt{15}$ $\sqrt{42}$ $\sqrt{61}$

In each case, the radicand is a whole number that is not a perfect square and does not have any perfect square factors greater than 1.

Standard Radical Form

The principal square root of N: \sqrt{N}

Standard Radical Form

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If the radicand is not a perfect square

Standard Radical Form

The principal square root of N: \sqrt{N}

If the radicand is not a perfect square and <u>does</u> have perfect square factor(s) (greater than 1),

Standard Radical Form

The principal square root of N: \sqrt{N}

If the radicand is not a perfect square and <u>does</u> have perfect square factor(s) (greater than 1), then the expression is <u>not</u> in 'standard radical form'.

Standard Radical Form

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Standard Radical Form

The principal square root of N: \sqrt{N}

$$\sqrt{4\cdot 9}$$

Standard Radical Form

The principal square root of N: \sqrt{N}

$$\sqrt{4\cdot 9} =$$

Standard Radical Form

The principal square root of N: \sqrt{N}

$$\sqrt{4\cdot 9} = \sqrt{4} \cdot \sqrt{9}$$

Standard Radical Form

The principal square root of N: \sqrt{N}

$$\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$$
$$\sqrt{36}$$

Standard Radical Form

The principal square root of N: \sqrt{N}

$$\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$$
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Standard Radical Form

The principal square root of N: \sqrt{N}

$$\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$$

$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$

$$6$$

Standard Radical Form

The principal square root of N: \sqrt{N}

$$\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$$
$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$
$$6 =$$

Standard Radical Form

The principal square root of N: \sqrt{N}

$$\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$$
$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$
$$6 = 2$$

Standard Radical Form

The principal square root of N: \sqrt{N}

$$\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$$
$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$
$$6 = 2 \cdot$$

Standard Radical Form

The principal square root of N: \sqrt{N}

$$\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$$
$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$
$$6 = 2 \cdot 3$$

Standard Radical Form

The principal square root of N: \sqrt{N}

If the radicand is not a perfect square and <u>does</u> have perfect square factor(s) (greater than 1), then the expression is <u>not</u> in 'standard radical form'. The process of writing the expression in standard radical form relies on the multiplication property of square roots. Consider this example.

$$\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$$
$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$
$$6 = 2 \cdot 3$$

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$$\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$$
$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$
$$6 = 2 \cdot 3$$

$$\sqrt{\mathbf{a} \cdot \mathbf{b}} =$$

Standard Radical Form

The principal square root of N: \sqrt{N}

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$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$
$$6 = 2 \cdot 3$$

$$\sqrt{\mathbf{a} \cdot \mathbf{b}} = \sqrt{\mathbf{a}}$$

Standard Radical Form

The principal square root of N: \sqrt{N}

If the radicand is not a perfect square and <u>does</u> have perfect square factor(s) (greater than 1), then the expression is <u>not</u> in 'standard radical form'. The process of writing the expression in standard radical form relies on the multiplication property of square roots. Consider this example.

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$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$
$$6 = 2 \cdot 3$$

$$\sqrt{\mathbf{a} \cdot \mathbf{b}} = \sqrt{\mathbf{a}} \cdot$$

Standard Radical Form

The principal square root of N: \sqrt{N}

If the radicand is not a perfect square and <u>does</u> have perfect square factor(s) (greater than 1), then the expression is <u>not</u> in 'standard radical form'. The process of writing the expression in standard radical form relies on the multiplication property of square roots. Consider this example.

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$$\sqrt{\mathbf{a} \cdot \mathbf{b}} = \sqrt{\mathbf{a}} \cdot \sqrt{\mathbf{b}}$$

Standard Radical Form

The principal square root of N: \sqrt{N}

If the radicand is not a perfect square and <u>does</u> have perfect square factor(s) (greater than 1), then the expression is <u>not</u> in 'standard radical form'. The process of writing the expression in standard radical form relies on the <u>multiplication property of</u> square roots. Consider this example.

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$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$
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The principal square root of N: \sqrt{N}

If the radicand is not a perfect square and <u>does</u> have perfect square factor(s) (greater than 1), then the expression is <u>not</u> in 'standard radical form'. The process of writing the expression in standard radical form relies on the <u>multiplication property of</u> square roots. Consider this example.

$$\sqrt{4 \cdot 9} = \sqrt{4} \cdot \sqrt{9}$$
$$\sqrt{36} = \sqrt{4} \cdot \sqrt{9}$$
$$6 = 2 \cdot 3$$

In general, if a and b represent whole numbers, then

$$\sqrt{\mathbf{a} \cdot \mathbf{b}} = \sqrt{\mathbf{a}} \cdot \sqrt{\mathbf{b}}$$

Notice that this property is written so that it can be used to factor a square root expression.

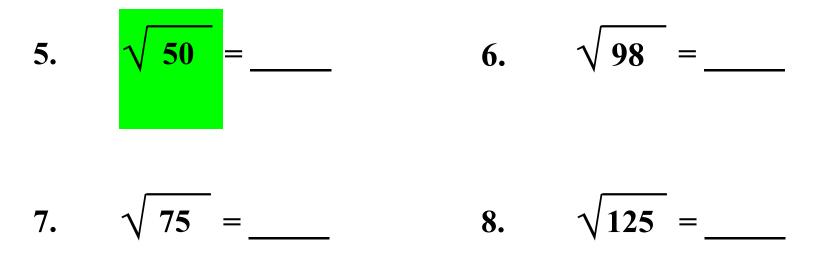
Express each of the following square roots using standard radical form.

5.
$$\sqrt{50} =$$
_____6. $\sqrt{98} =$ _____
7. $\sqrt{75} =$ _____8. $\sqrt{125} =$ _____

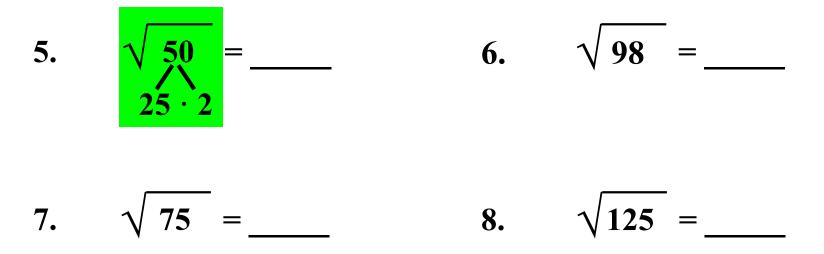
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$$\sqrt{50} =$$
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7. $\sqrt{75} =$ _____8. $\sqrt{125} =$ _____

Express each of the following square roots using standard radical form.



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$$\sqrt{50} =$$
 6. $\sqrt{98}_{49 \cdot 2} =$
7. $\sqrt{75} =$ 8. $\sqrt{125} =$

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$$\sqrt{50} =$$
_____ 6. $\sqrt{98} =$ _____
7. $\sqrt[]{75}_{25 \cdot 3} =$ _____ 8. $\sqrt{125} =$ _____

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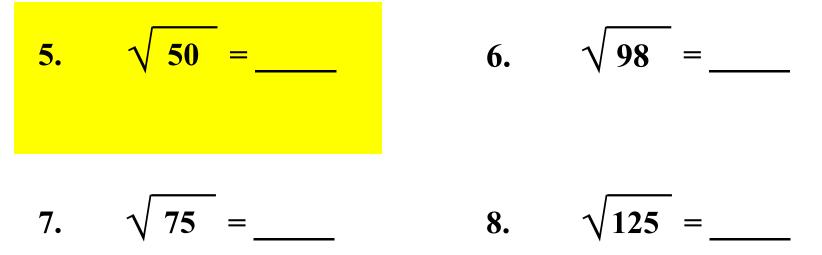
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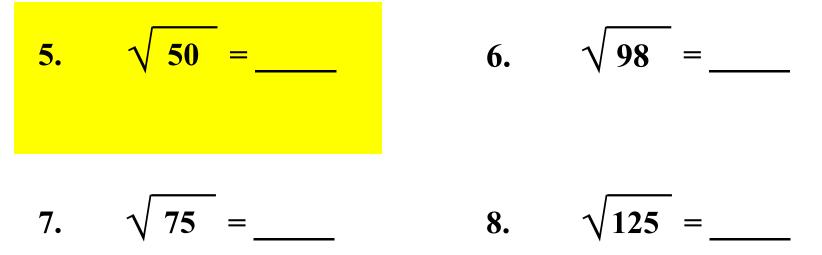
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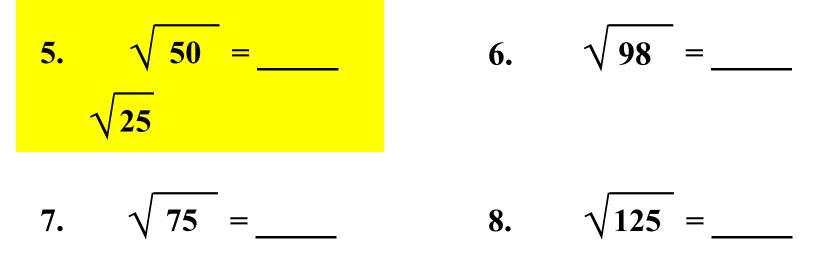


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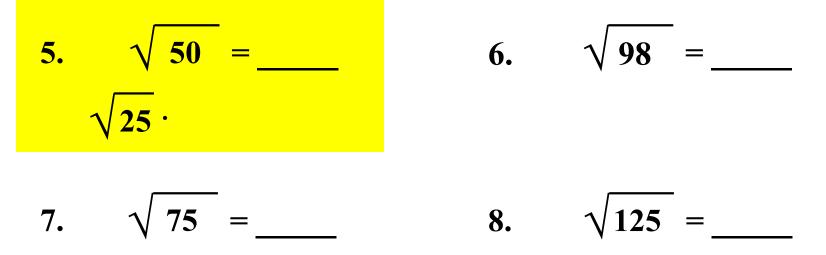
$$\sqrt{\mathbf{a} \cdot \mathbf{b}} = \sqrt{\mathbf{a}} \cdot \sqrt{\mathbf{b}}$$

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7. $\sqrt{75} = \frac{5\sqrt{3}}{\sqrt{25} \cdot \sqrt{3}}$
8. $\sqrt{125} = \frac{\sqrt{25}}{\sqrt{25}}$

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8. $\sqrt{125} = \frac{\sqrt{25}}{\sqrt{25} \cdot \sqrt{3}}$

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8. $\sqrt{125} = \frac{\sqrt{25} \cdot \sqrt{5}}{\sqrt{25} \cdot \sqrt{5}}$

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Notice that each of the answers is a number multiplied by the square root of a whole number.

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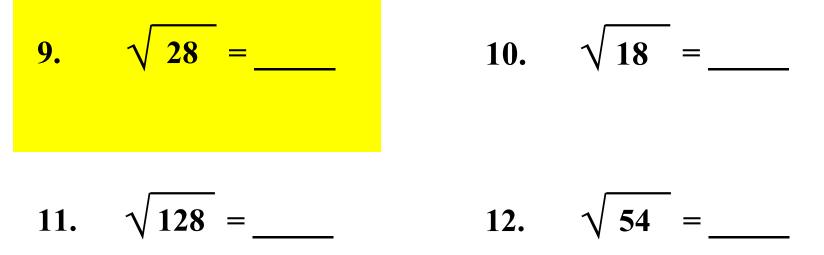
Express each of the following square roots using standard radical form.

9.
$$\sqrt{28} =$$
 10. $\sqrt{18} =$ 11. $\sqrt{128} =$ 12. $\sqrt{54} =$

Step 1: Use the multiplication property of square roots to factor the expression. Factor out the perfect square factor.

$$\sqrt{\mathbf{a} \cdot \mathbf{b}} = \sqrt{\mathbf{a}} \cdot \sqrt{\mathbf{b}}$$

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 $\sqrt{4}$.
11. $\sqrt{128} =$ 12. $\sqrt{54} =$

Step 1: Use the multiplication property of square roots to factor the expression. Factor out the perfect square factor.

$$\sqrt{\mathbf{a} \cdot \mathbf{b}} = \sqrt{\mathbf{a}} \cdot \sqrt{\mathbf{b}}$$

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$$\sqrt{28} = \frac{2}{\sqrt{4} \cdot \sqrt{7}}$$
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12. $\sqrt{54} = \underline{$

$$\sqrt{128} = \sqrt{4}$$

Express each of the following square roots using standard radical form.

9.
$$\sqrt{28} = \frac{2\sqrt{7}}{\sqrt{4} \cdot \sqrt{7}}$$

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12. $\sqrt{54} = \underline{$

$$\sqrt{128} = \sqrt{4} \cdot \sqrt{32}$$

Express each of the following square roots using standard radical form.

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$$\sqrt{28} = \frac{2\sqrt{7}}{\sqrt{4} \cdot \sqrt{7}}$$

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12. $\sqrt{54} = \underline{$

$$\sqrt{128} = \sqrt{4} \cdot \sqrt{32} = 2$$

Express each of the following square roots using standard radical form.

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$$\sqrt{28} = \frac{2\sqrt{7}}{\sqrt{4} \cdot \sqrt{7}}$$

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$$\sqrt{128} = \sqrt{4} \cdot \sqrt{32} = 2\sqrt{32}$$

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Why the <u>largest</u> perfect square factor? Let's use 4 instead of 64.

$$\sqrt{128} = \sqrt{4} \cdot \sqrt{32} = 2\sqrt{32}$$

This is not in standard radical form.

Express each of the following square roots using standard radical form.

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$$\sqrt{28} = \frac{2\sqrt{7}}{\sqrt{4} \cdot \sqrt{7}}$$

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Express each of the following square roots using standard radical form.

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Why the <u>largest</u> perfect square factor? Let's use 4 instead of 64.

$$\sqrt{128} = \sqrt{4} \cdot \sqrt{32} = 2 \sqrt{32} = 2 \cdot \sqrt{16}$$

Express each of the following square roots using standard radical form.

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$$\sqrt{28} = \frac{2\sqrt{7}}{\sqrt{4} \cdot \sqrt{7}}$$

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$$\sqrt{128} = \sqrt{4} \cdot \sqrt{32} = 2\sqrt{32} = 2 \cdot \sqrt{16} \cdot \sqrt{2}$$
$$= 2 \cdot 4$$

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$$\sqrt{128} = \sqrt{4} \cdot \sqrt{32} = 2\sqrt{32} = 2 \cdot \sqrt{16} \cdot \sqrt{2}$$
$$= 2 \cdot 4 \cdot \sqrt{2}$$

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$$= 2 \cdot 4 \cdot \sqrt{2} =$$

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$$\sqrt{128} = \sqrt{4} \cdot \sqrt{32} = 2\sqrt{32} = 2 \cdot \sqrt{16} \cdot \sqrt{2}$$
$$= 2 \cdot 4 \cdot \sqrt{2} = 8$$

Express each of the following square roots using standard radical form.

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$$= 2 \cdot 4 \cdot \sqrt{2} = 8\sqrt{2}$$

Express each of the following square roots using standard radical form.

9.
$$\sqrt{28} = \frac{2\sqrt{7}}{\sqrt{4} \cdot \sqrt{7}}$$

10. $\sqrt{18} = \frac{3\sqrt{2}}{\sqrt{9} \cdot \sqrt{2}}$
11. $\sqrt{128} = \frac{8\sqrt{2}}{\sqrt{64} \cdot \sqrt{2}}$
12. $\sqrt{54} = \underline{$

$$\sqrt{128} = \sqrt{4} \cdot \sqrt{32} = 2\sqrt{32} = 2 \cdot \sqrt{16} \cdot \sqrt{2}$$
$$= 2 \cdot 4 \cdot \sqrt{2} = 8\sqrt{2}$$

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Good luck on your homework !!
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