

DLT Makeups

Due 2 weeks after tests are handed back

Jan 27-7:32 AM

Today is Day 1 of Unit 9:
Right Triangles

Assessments:
Right Triangles Quiz
Tuesday 2/18 Wednesday 2/19

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Evaluate

$1^2=$	$11^2=$
$2^2=$	$12^2=$
$3^2=$	$13^2=$
$4^2=$	$14^2=$
$5^2=$	$15^2=$
$6^2=$	$16^2=$
$7^2=$	$17^2=$
$8^2=$	$18^2=$
$9^2=$	$19^2=$
$10^2=$	$20^2=$

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Unit 9: Right Triangles
"Rad"icals

Today's I Can Statement:

TR-1: I can simplify radicals
TR-2: I can perform mathematical operations with a radical

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Simplifying Radicals

$\sqrt{a \cdot b} = \sqrt{a} \cdot \sqrt{b}$ Product Property

$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$ Quotient Property

Simpliest Form-apply properties
-remove any perfect squares
-rationalize any denominators

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Simplifying Radicals:
Determine nice perfect square multiples

EX: $\sqrt{18}$

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Example

Simplify.

a. $\sqrt{20}$

b. $\sqrt{48}$

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Example

Simplify.

a. $2\sqrt{96}$

b. $\frac{1}{3}\sqrt{90}$

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Example

Simplify.

a. $\sqrt{24} \cdot 2\sqrt{3}$

b. $3\sqrt{2} \cdot 5\sqrt{20}$

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Example

Squaring: Expand.

$(\sqrt{5})^2$

Simplify.

a. $(4\sqrt{13})^2$ b. $(5\sqrt{11})^2$

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Example

What do we do when a $\sqrt{\quad}$ is in the denominator?

Simplify.

a. $\sqrt{\frac{16}{9}}$ b. $\frac{\sqrt{24}}{\sqrt{6}}$

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Example

Rationalize the denominator.

a. $\frac{10}{\sqrt{5}}$ b. $\frac{7}{\sqrt{8}}$ c. $\frac{5}{3\sqrt{5}}$

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Final Jeopardy
Find the original (un-simplified) root


$$7\sqrt{2}$$

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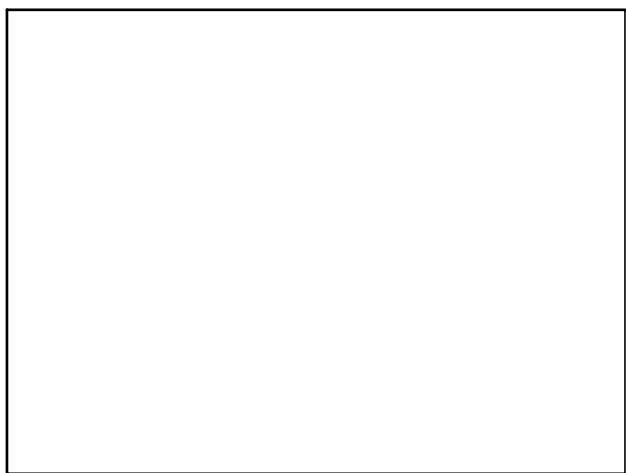
Tonight's Assignment:
Radical Worksheet

Remember:
Right Triangles Quiz
Tuesday 2/18 Wednesday 2/19

Today's I Can Statements:
TR-1: I can simplify radicals
TR-2: I can perform mathematical operations with a radical



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