#### **DLT Make-up Procedure:**

- 1) Print out DLT sheet
- 2) Check to make sure you have NO missing HW assignments
- 3) Check test and make sure you got ALL corresponding questions on the test correct
- 4) Highlight the DLT's you missed points AND got correct on test
- 5) MAKE TEST CORRECTIONS
- 6) Paperclip test and DLT sheet together and turn in no later than 2 weeks after the tests are handed back (2/18, 2/19)

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		Name:		Hour:	
Date	DLT Score	DLT	Test Title	Test Question (s)	
21-Jan		Unit 8 DLT 1: 6.1, 6.3, 6.4	Unit 8 Quest	#2-4, 12,15	
27-Jan		Unit 8 DLT 2: Points of Concurrency (6.1-6.4)	Unit 8 Quest	#16, 24	
29-Jan		Unit 8 DLT 3: 6.1	Unit 8 Quest	#9-11, 22, 23	
Steps to earn	DLT points ba	ck:			
1) 90% HW c	ompletion on t	he unit			
2) Get the ta	rgets correct o	n the test			
**this means	you correctly	anser ALL of the questions listed!			
3) Make a lis	t for Ms. Wilm	ert including			
A) Print th	is page out				
B) Highlig	ght the DLTs yo	u missed points AND got correct on the test			
4) MAKE TES	T CORRECTION	IS ON ENTIRE TEST!		/	
5) Paperclip t	test and this sh	eet and turn into Ms. Wilmert with your name an	d hour		

## Today is Day 1 of Unit 9: Right Triangles

Assessments:

Right Triangles Quiz
Tuesday 2/18 Wednesday 2/19

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Evaluate	<b>1</b> 2=	1	11 <sup>2</sup> =	121
	2 <sup>2</sup> =		12 <sup>2</sup> =	144
	3 <sup>2</sup> =	•	$13^2 =$	169
	3 = 4 <sup>2</sup> =		14 <sup>2</sup> =	196
	5 <sup>2</sup> =	_	15 <sup>2</sup> =	225
			$16^2 =$	256
	$6^2 = 72 = 72 = 72 = 72 = 72 = 72 = 72 = $		17 <sup>2</sup> =	
	$7^2 =$		18 <sup>2</sup> =	
	8 <sup>2</sup> =	_	19 <sup>2</sup> =	
	9 <sup>2</sup> =	_	20 <sup>2</sup> =	
	$10^{2}$ =	100	LU -	TUU

# 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

# Simplifying Radicals $\sqrt{a_{\text{radicand}}}$

$$\sqrt{a}_{radicand}$$

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

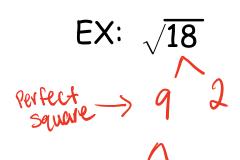
$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$
 Quotient Property

Simpliest Form-apply properties

- -remove any perfect squares
- -rationalize any denominators

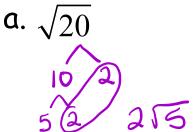
#### **Simplifying Radicals**:

Determine nice perfect square multiples





### Simplify.



b.  $\sqrt{48}$ 



 $2.2.\sqrt{3} = 4\sqrt{3}$ 

a. 
$$2\sqrt{96}$$
 $2.2\sqrt{3}\sqrt{2} = 4\sqrt{6}$ 
 $3\sqrt{4}\sqrt{2}$ 
 $2\sqrt{2}\sqrt{2}$ 
 $1\sqrt{2}$ 

b. 
$$\frac{1}{3}\sqrt{90}$$
 $\sqrt{90}$ 
 $\sqrt{3}\sqrt{3}\sqrt{25}$ 

#### **Squaring:** Expand.

#### Example

$$\left(\sqrt{5}\right)^2$$

$$\left(\sqrt{5}\right)^2$$
  $\sqrt{5} \cdot \sqrt{5} = 5$ 

$$a. \left(4\sqrt{13}\right)^2$$

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

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

a. 
$$\sqrt{\frac{16}{9}} = \sqrt{\frac{16}{3}} = \frac{4}{3}$$

Perfect

Squares!

b. 
$$\frac{\sqrt{24}}{\sqrt{6}} \cdot \frac{\sqrt{6}}{\sqrt{6}}$$

#### Rationalize the denominator.

a. 
$$\frac{10}{\sqrt{5}}$$
.  $\frac{15}{5}$ 

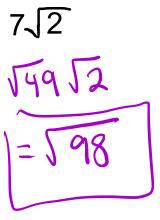
b. 
$$\frac{7}{\sqrt{9}}$$

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

#### Final Jeopardy

Use a sratch piece of paper and find the original (un-simplified) root. Turn in when finished.

72 = 49



#### 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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