Kuta Software - Infinite Pre-Algebra

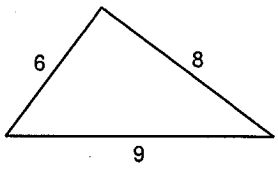
Name_____

The Pythagorean Theorem

Date_____ Period____

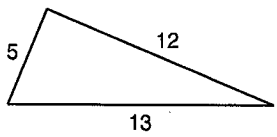
Do the following lengths form a right triangle?

1)



$a^2+b^2=c^2$
$6^2+8^2=9^2$
$36+64=81$
$100 \neq 81$
No,
Not a right Δ.

2)



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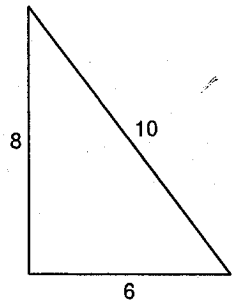

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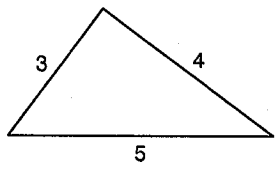
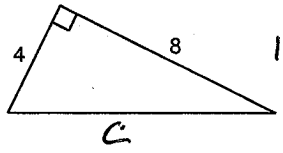


5) *a = 6.4, b = 12, c = 12.2*

6) *a = 2.1, b = 7.2, c = 7.5*

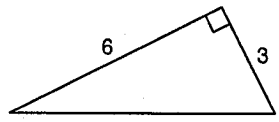
Find each missing length to the nearest tenth.

7)



$4^2+8^2=c^2$
$16+64=c^2$
$\sqrt{80}=\sqrt{c^2}$
$\sqrt{16}\sqrt{5}=c$
$4\sqrt{5}=c$

8)



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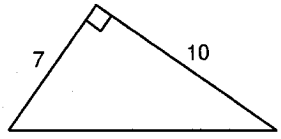

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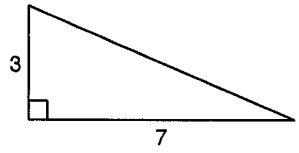

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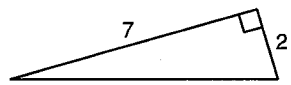

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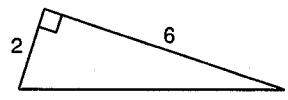

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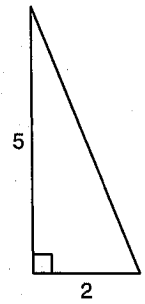

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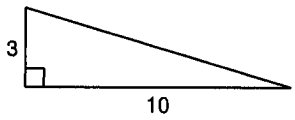

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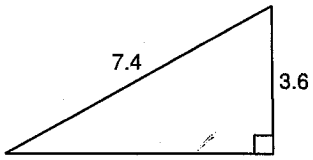

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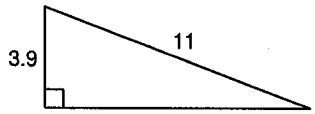

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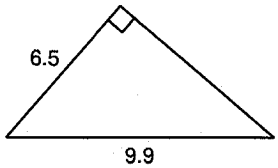

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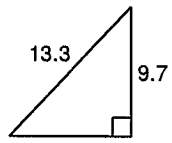

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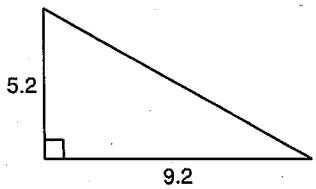

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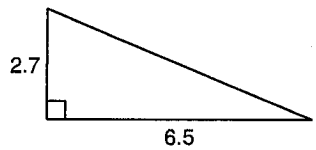

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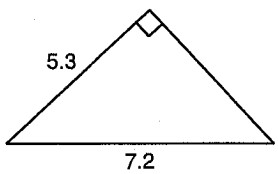

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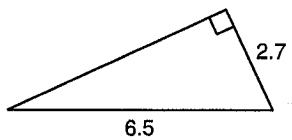

Name_____

Using the Distributive Property

Date_____ Period____

Simplify each expression.

1) $-6(a+8)$

2) $4(1+9x)$

3) $6(-5n+7)$

4) $(9m+10)\cdot 2$

5) $(-4-3n)\cdot -8$

6) $8(-b-4)$

7) $(1-7n)\cdot 5$

8) $-6(x+4)$

9) $5(3m-6)$

10) $(-6p+7)\cdot -4$

11) $5(b-1)$

12) $(x+9)\cdot 5$

13) $-4(-8x-8)$

14) $-6(7+x)$

15) $-3(x-5)$

16) $-5(10x+1)$

17) $(1+2v)\cdot 5$

18) $-8(1-5x)$

19) $-7(5k-4)$

20) $-5(7a-6)$

21) $5(n+6)$

22) $4(3r-8)$

23) $3(5+5x)$

24) $(1+9x)\cdot -10$