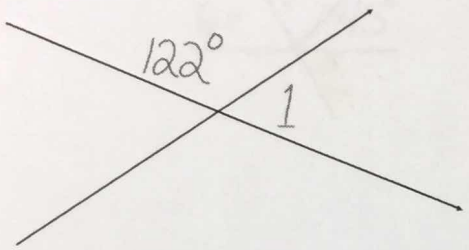
Key

1. Find the measure of angle 1.



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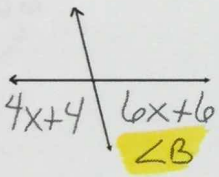
$\angle 1 + 122 = 180$

$-122 \quad -122$

$\angle 1 = 58°$

2. Find the measure of angle B.



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$4x+4+6x+6=180$

$10x+10=180$

$-10 \quad -10$

$\frac{10x}{10} = \frac{170}{10}$

$x = 17$

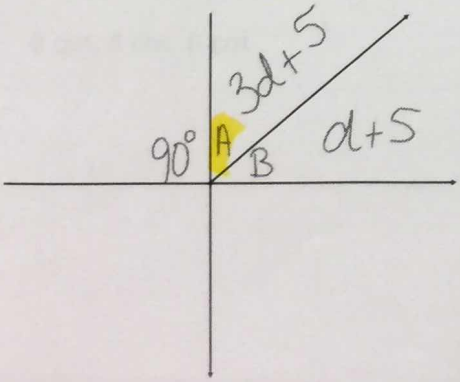
$\angle B = 6x+6$

$= 6(17)+6$

$= 102+6$

$\angle B = 108°$

3. Find the measure of angle A.



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$\angle A + \angle B = 90$

$3d+5+d+5=90$

$4d+10=90$

$-10 \quad -10$

$\frac{4d}{4} = \frac{80}{4}$

$d = 20$

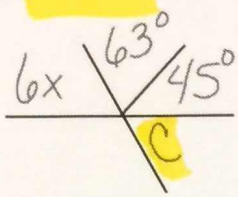
$\angle A = 3d+5$

$= 3(20)+5$

$= 60+5$

$\angle A = 65°$

4. Find the measure of angle C.



$63 + 45 + C = 180$

$108 + C = 180$

$-108 \quad -108$

$C = 72°$

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5. Can this be a triangle?

25 m, 55 m, 30 m

Add 2 smallest #'s
If sum > 3rd # Ans is yes

$25 + 30 \square 55$

$55 = 55$

No

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6. Can this be a triangle?

8 cm, 8 cm, 8 cm

$8 + 8 \square 8$

$16 > 8$

yes

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7. Can this be a triangle?

9 ft, 20 ft, 10 ft

$9+10 \square 20$

$19 < 20$

NO

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8. Can this be a triangle?

100 yd, 20 yd, 90 yd

$20+90 \square 100$

$110 > 100$

yes

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8A.

Find the missing angle measures and classify the triangle.

1) 43, 47, 90 right

2) 2, 54, 124 obtuse

3) 63, 89, 28 acute

4) 20, 103, 57 obtuse

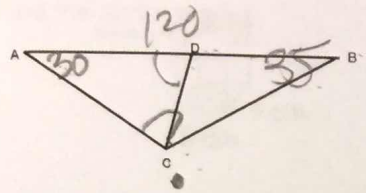
1) $43+47=90$ $180-90=90$ right

2) $2+54=56$ $180-56=124$ obtuse

3) $63+89=152$ $180-152=28$ acute

4) $20+103=123$ $180-123=57$ obtuse

Mar 6-8:08 AM

9. 

m∠ DAC = 30
m∠ ADC = 120
m ∠ DBC = 35

What is the m ∠ ACB?

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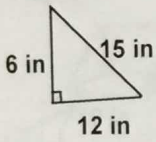
* $\hat{\angle A} = 30$
$\angle D = 120$
* $\angle B = 35$

$\angle A + \angle B$ | 180
$30 + 35$ | $-\ 65$
65 | 115°

10. Find the area.



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$A = \frac{1}{2}bh$

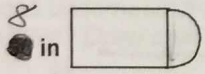
$\frac{1}{2}(12)(6)$

$6(6)$

$A = 36\ in^2$

113.12

11. Find the area of the composite figure.



$d = 8$
$r = 4$

$A = \pi r 2$

rect + semi ⊙
$lw + \frac{1}{2}(\pi r^2)$

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$A = (l \cdot w) + \frac{1}{2}\pi r 2$
$(11 \cdot 8) + \frac{1}{2}[3.14(4)^2]$
$(88) + \frac{1}{2}[3.14(16)]$
$88 + 3.14 \cdot 8$
$88 + 25.12$
$113.12\ m^2$