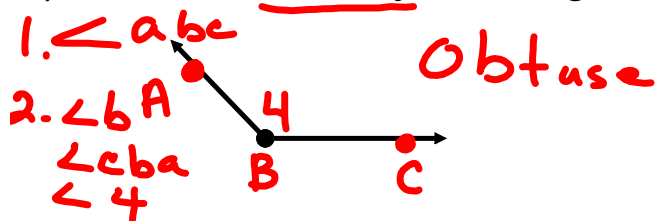You need out your warm up, agenda, & HW

Homework: Comp/Supp Angles Practice

Opening:

1) ~~Name~~ & Classify the Angle:

1. $\angle abc$
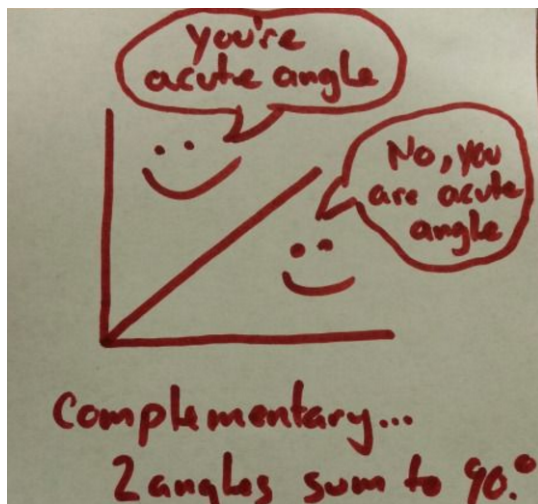
2. $\angle b$

$\angle cba$

$\angle 4$

Obtuse

A

4

B　　C

2) Solve for x:

$4x + 12 = 48$

$-12 \quad -12$

$\dfrac{4x}{4} = \dfrac{36}{4}$

$x = 9$

3) Solve for x:　$3x + 2 + 1x = 18$

$-2 \qquad -2$

$3x + 1x = 16$

$\dfrac{4x}{4} = \dfrac{16}{4}$

$x = 4$

Complementary- Think Complements!

Supplementary Angles- **S**TRAIGHT LINE

Supplementary, Complementary Angles, & Adjacent Angles— Notes

Worried you won't be able to remember the difference between a complementary angle and supplementary? C comes before S and 90 comes before 180

1

2

3 4
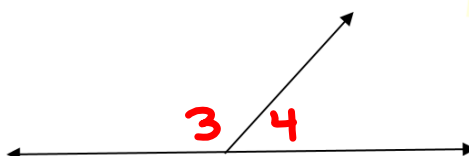
Adjacent Angles- Two angles who share a common side & vertex. (Next to each other)

Complementary Angles- Two angles whose measures have a sum of 90°

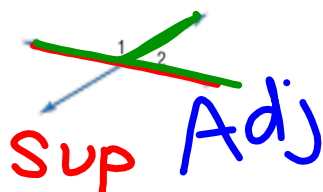Supplementary Angles- Two angles whose measures have a sum of 180°

Practice!

~~SUPP~~

-Determine if the following angles are *complementary*, ~~complementary~~, *or neither*

COMP.

1.

Sup Adj

2.

60°

30°

comp
60+30=90

3.

75°

15°
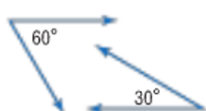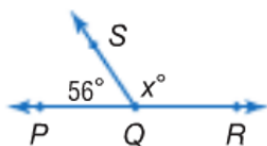
75+15
90

You can use angle relationships to find the missing angle measures:

1. Determine the angle relationship.

2. Find the missing angle measures by setting up an equation.

EX:

-What is the angle relationship? Supplementary
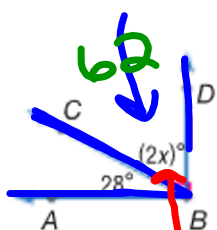
- Set up an equation to find the missing angle measure:

$$56 + x = 180$$
$$-56 \qquad -56$$
$$x = 134°$$

2

2.

62

-What is the angle relationship? **Comp.**

-Set up an equation to find the missing angle measure:

$$2x + 28 = 90$$
$$-28 \quad -28$$
$$\frac{2x}{2} = \frac{62}{2}$$
$$x = 31$$

2·31

62

3.

123° (3x)° **57°**

-What is the angle relationship? **Supp.**

- Set up an equation to find the missing angle measure:

3·19

(57)

$$3x + 123 = 180$$

$$-123 \quad -123$$

$$\frac{3x}{3} = \frac{57}{3}$$

$$x = 19$$

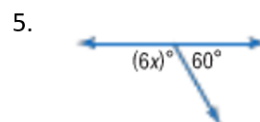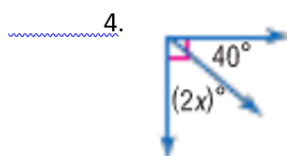Supplementary & Commentary Angles- Practice!

-Determine if the following angle measures are *complementary, supplementary, or neither*

1.

135°

45°

2.

23°

67°
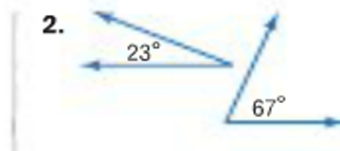
-Find the missing angle measurements:

3.

(8x)°

116°

4.

40°

(2x)°

5.

(6x)°   60°

3.

(2x)°   40°

140°

$$2x + 40 = 180$$
$$-40 \quad | \quad -40$$
$$2x = 140$$

4.

60

(3x)°

30°

$$3x + 30 = 90$$
$$-30 \quad | \quad -30$$
$$3x = 60$$

5.

40°
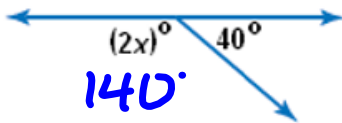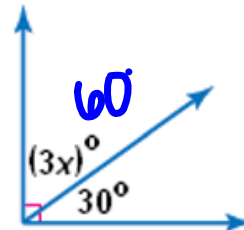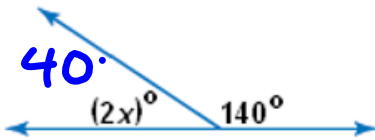
(2x)°   140°

$$2x + 140 = 180$$
$$-140 \quad | \quad -140$$
$$2x = 40$$

6.

66°

8x°   24°

$$8x + 66 = 90$$
$$-66 \quad | \quad -66$$

7.

$2x°$
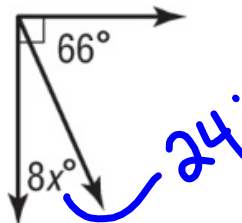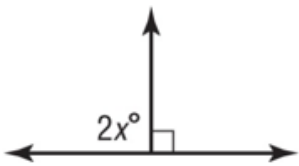
Sit silently for the news