Types of Angles

- **Notes Pages**
- **Practice**
- **Assessment**

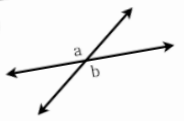
Definition	Properties/Facts

supplementary angles

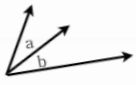
Illustrations	Example Problem
	Angles a and b are supplementary. The measurement of

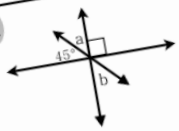
Types of Angles - Practice Worksheet Name: _____

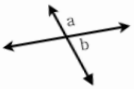
Identify angles a and b as supplementary, complementary, vertical, or adjacent. If an angles can be classified as more than one type, write all that apply.

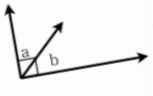
1 

2 

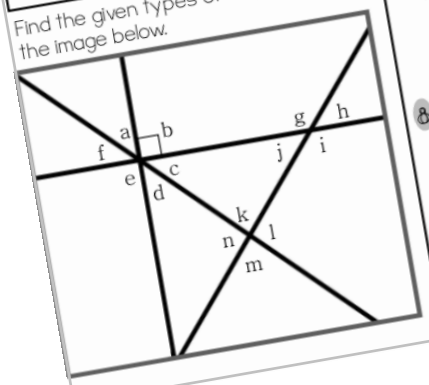
3 

4 

5 

6 

Find the given types of angles using the image below.



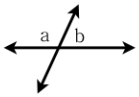
7 Name two pairs of supplementary angles.

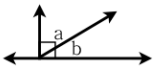
8 Name two pairs of vertical angles.

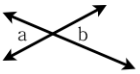
9 Name a pair of complementary angles.

Types of Angles - Exit Slip Name: _____

Identify angles a and b as supplementary, complementary, vertical, or adjacent. If an angles can be classified as more than one type, write all that apply.

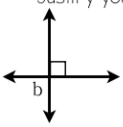
1 

2 

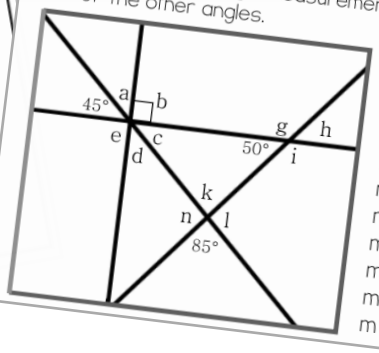
3 

Find the measure of angle b. Justify your answer.

5 Find the measure of angle b. Justify your answer.



10 Use the given angle measurements to find the measurement of the other angles.



m∠a = _____
m∠b = _____
m∠c = _____
m∠d = _____
m∠e = _____
m∠g = _____
m∠h = _____
m∠i = _____
m∠k = _____
m∠l = _____
m∠n = _____

Math on the Move

Possible Directions For Use:

1. Copy the Notes Pages for each student. I have students cut out each vocabulary word and glue it in (after the notes are finished), so I copy it single sided.

2. Use the answer key to guide you as you take students through the notes.

3. Once notes are completed, have students cut and paste them into their notebooks.

4. Pass out the worksheet as homework, in-class practice, or partner work.

5. The half-sheet exit slip can be used as a formative assessment, for homework, or as an entrance slip the next day.

Helpful hint: I have a bulletin board, where I staple up all notes pages answer keys after a lesson. This is helpful for absent students. I also will use it as a reference throughout the unit.

Types of Angles - Notes

Definition	Properties/Facts

supplementary angles

Illustrations	Example Problem
	Angles a and b are supplementary. The measurement of angle a is 40°. Find the measurement of angle b.

Definition	Properties/Facts

complementary angles

Illustration	Example Problem
	Angles a and b are complementary. The measurement of angle a is 23°. Find the measurement of angle b.

Types of Angles - Notes

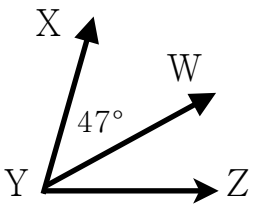
Definition	Properties/Facts

vertical angles

Illustrations	Example Problem
	Angles a and b are vertical angles. The measurement of angle a is 35°. Find the measurement of angle b.

Definition	Properties/Facts

adjacent angles

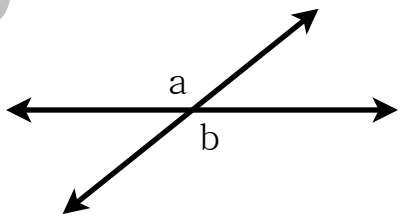
Illustration	Example Problem
	The measurement of ∠XYZ = 75°. Find m ∠WYZ. 

Types of Angles - Practice Worksheet

Name: _____

Identify angles a and b as supplementary, complementary, vertical, or adjacent. If an angle can be classified as more than one type, write all that apply.

1



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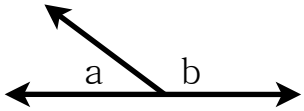
2



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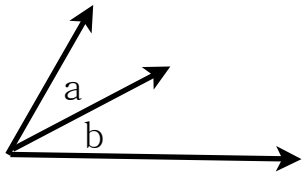
3



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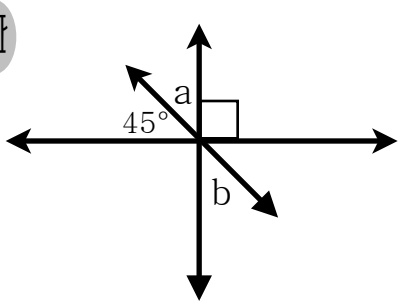
4



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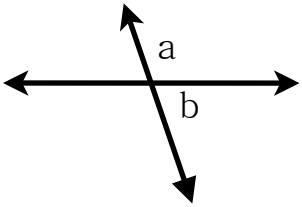
5



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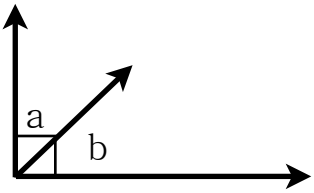
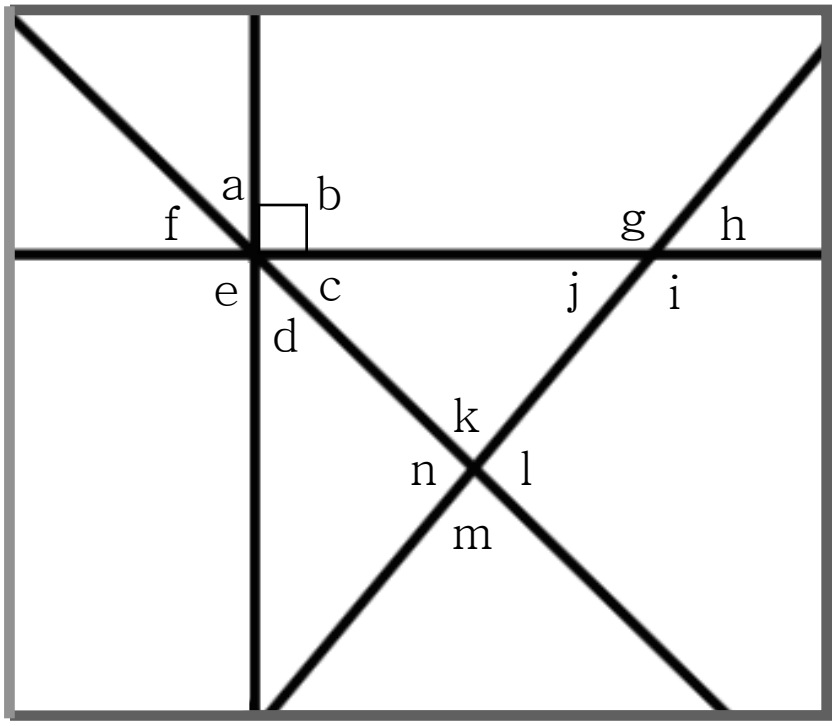


_____

Find the given types of angles using the image below.



7 Name two pairs of supplementary angles.

_____

_____

8 Name two pairs of vertical angles.

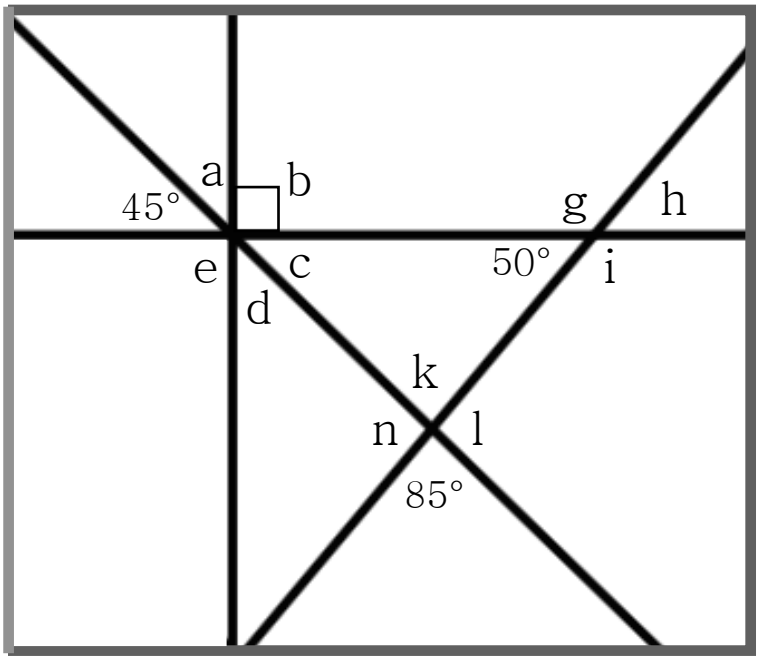
_____

_____

9 Name a pair of complementary angles.

_____

10 Use the given angle measurements to find the measurement of the other angles.



m ∠ a = _____

m ∠ b = _____

m ∠ c = _____

m ∠ d = _____

m ∠ e = _____

m ∠ g = _____

m ∠ h = _____

m ∠ i = _____

m ∠ k = _____

m ∠ l = _____

m ∠ n = _____

Use a ruler to construct the given types of angles. Use a protractor to measure and label the angles with their measurements.

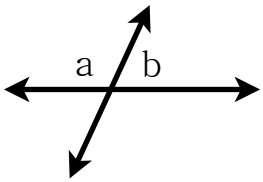
11 Complementary angles that are also adjacent.	12 Vertical angles.
13 Supplementary angles that are also adjacent.	14 Supplementary angles that are not adjacent.

Types of Angles - Exit Slip

Name: _____

Identify angles a and b as supplementary, complementary, vertical, or adjacent. If an angle can be classified as more than one type, write all that apply.

1



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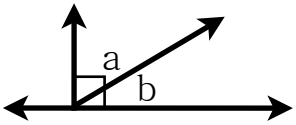
2



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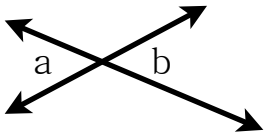
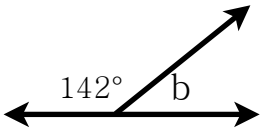
3

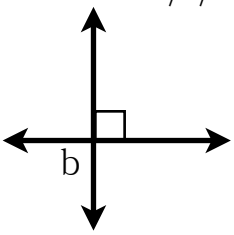


_____

4 Find the measure of angle b. Justify your answer.



5 Find the measure of angle b. Justify your answer.

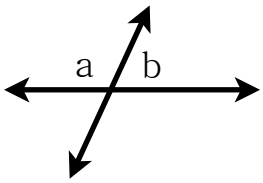


Types of Angles - Exit Slip

Name: _____

Identify angles a and b as supplementary, complementary, vertical, or adjacent. If an angle can be classified as more than one type, write all that apply.

1



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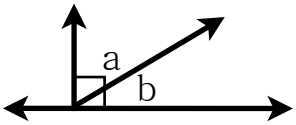
2



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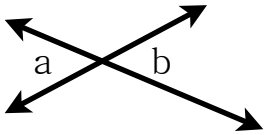
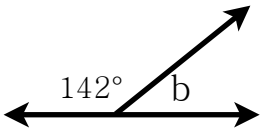
3

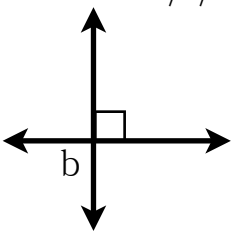


_____

4 Find the measure of angle b. Justify your answer.



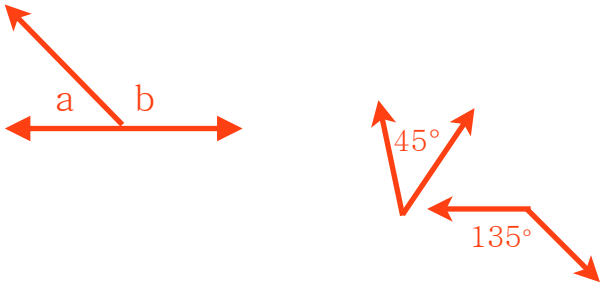
5 Find the measure of angle b. Justify your answer.



KEY

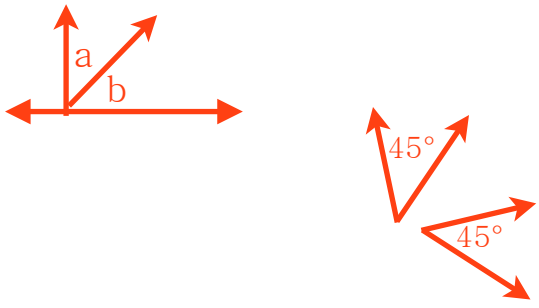
Definition	Properties/Facts
Two angles that have a sum of 180°	Angles do not have to share a ray or be connected

supplementary angles

Illustrations	Example Problem
	Angles a and b are supplementary. The measurement of angle a is 40°. Find the measurement of angle b. a + b = 180 40 + b = 180 b = 140°

Definition	Properties/Facts
Two angles that have a sum of 90°	Angles do not have to share a ray or be connected

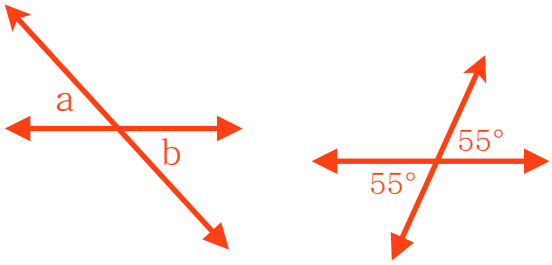
complementary angles

Illustration	Example Problem
	Angles a and b are complementary. The measurement of angle a is 23°. Find the measurement of angle b. a + b = 90 23 + b = 90 b = 67°

KEY

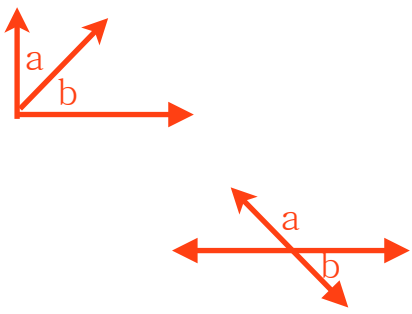
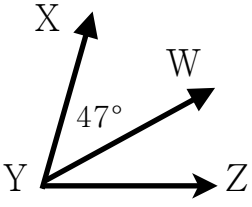
Definition	Properties/Facts
Two angles formed when two lines intersect that are opposite each other	Vertical angles are congruent. Share a vertex but no common ray.

vertical angles

Illustrations	Example Problem
	Angles a and b are vertical angles. The measurement of angle a is 35°. Find the measurement of angle b. a = b 35 = b b = 35°

Definition	Properties/Facts
Two angles that share a common vertex and a common ray	When two lines intersect, adjacent angles are also supplementary.

adjacent angles

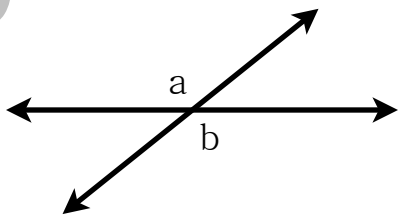
Illustration	Example Problem
	The measurement of ∠XYZ = 75°. Find m ∠WYZ.  a + 47 = 75 a = 28°

Types of Angles - Practice Worksheet

Name: KEY

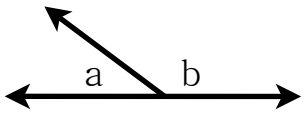
Identify angles a and b as supplementary, complementary, vertical, or adjacent. If an angle can be classified as more than one type, write all that apply.

1



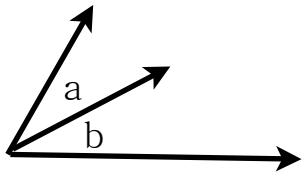
Vertical

2



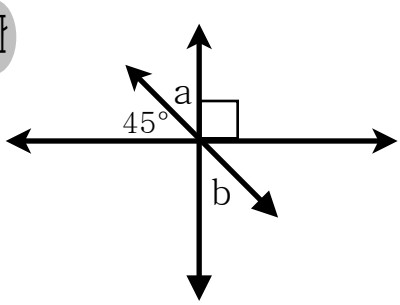
Adjacent and Supplementary

3



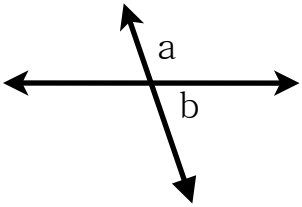
Adjacent

4



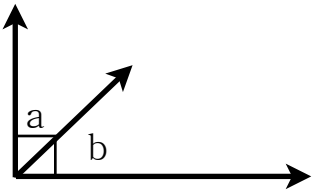
Vertical and Complementary

5



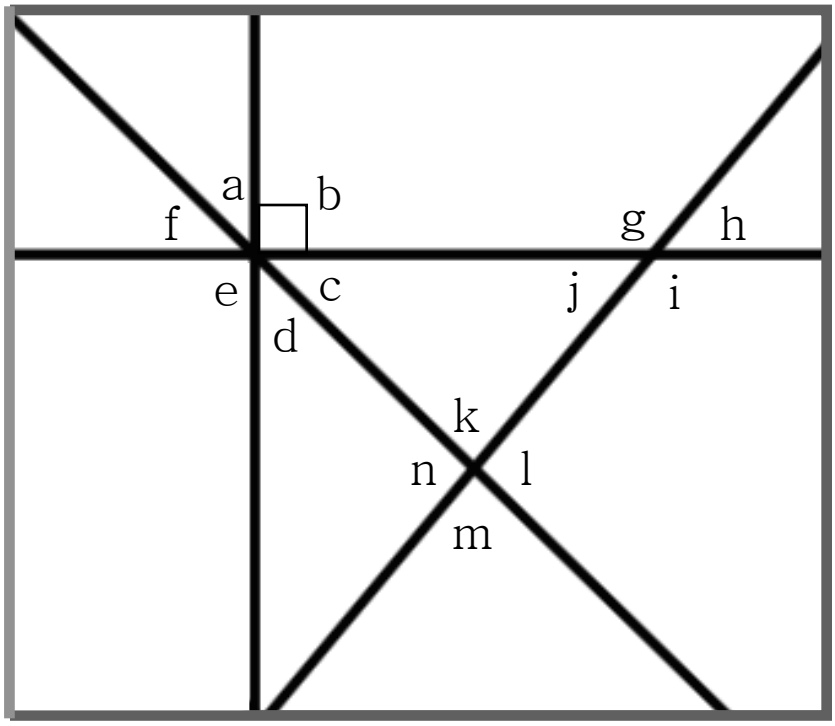
Adjacent and Supplementary

6



Adjacent and Complementary

Find the given types of angles using the image below.



7 Name two pairs of supplementary angles.

example:
∠ g and ∠ h

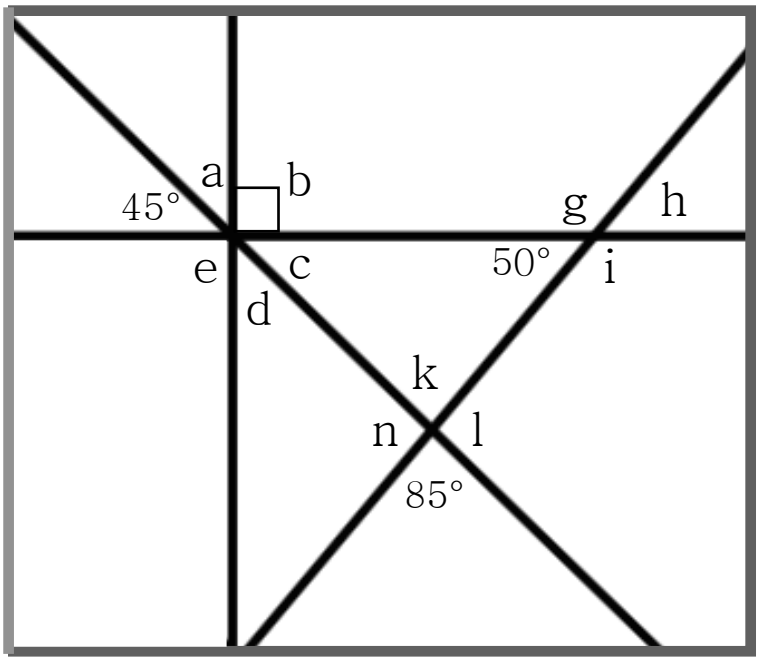
8 Name two pairs of vertical angles.

example:
∠ j and ∠ h

9 Name a pair of complementary angles.

example:
∠ c and ∠ d

10 Use the given angle measurements to find the measurement of the other angles.



m ∠ a = 45°
m ∠ b = 90°
m ∠ c = 45°
m ∠ d = 45°
m ∠ e = 90°
m ∠ g = 130°
m ∠ h = 50°
m ∠ i = 130°
m ∠ k = 85°
m ∠ l = 95°
m ∠ n = 95°

Construct the given types of angles. Then use a protractor to measure the angles.

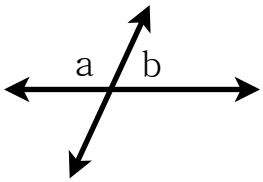
11 Complementary angles that are also adjacent. Answers will vary	12 Vertical angles.
13 Supplementary angles that are also adjacent.	14 Supplementary angles that are not adjacent.

Types of Angles - Exit Slip

Name: _____

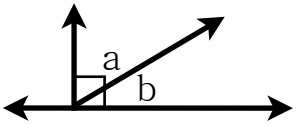
Identify angles a and b as supplementary, complementary, vertical, or adjacent. If an angle can be classified as more than one type, write all that apply.

1



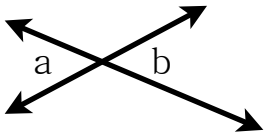
Adjacent and Supplementary

2



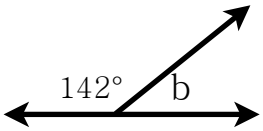
Adjacent and Complementary

3



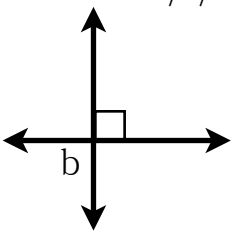
Vertical

4 Find the measure of angle b. Justify your answer.



38°
The angles are supplementary, so their sum is 180°

5 Find the measure of angle b. Justify your answer.



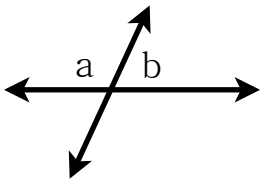
90°
The angles are vertical, so they are congruent. (they are also supplementary)

Types of Angles - Exit Slip

Name: _____

Identify angles a and b as supplementary, complementary, vertical, or adjacent. If an angle can be classified as more than one type, write all that apply.

1



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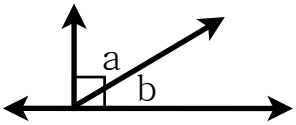

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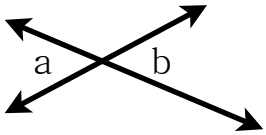
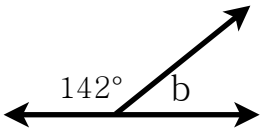
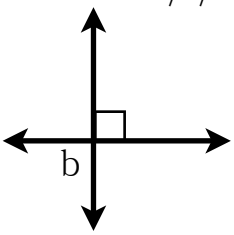


4 Find the measure of angle b. Justify your answer.

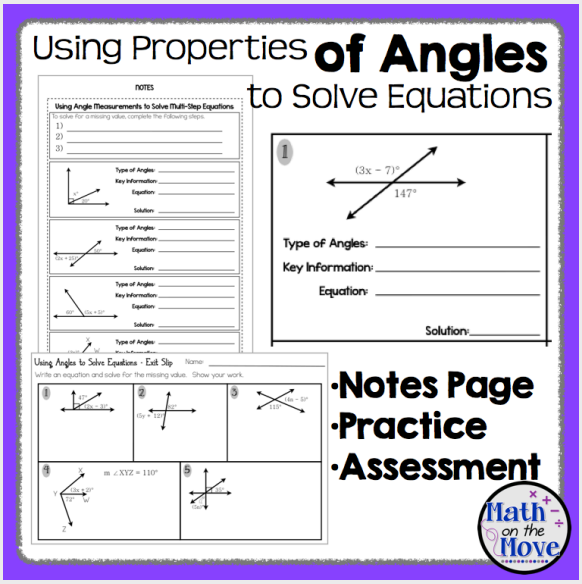


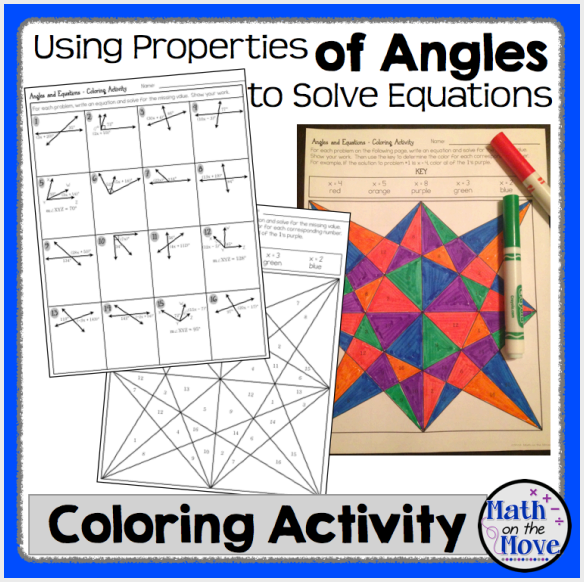
5 Find the measure of angle b. Justify your answer.

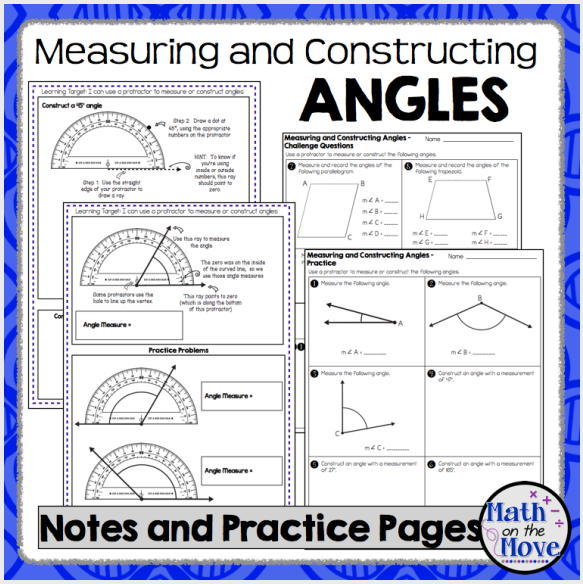


Need more Resources?

Click on the links below!







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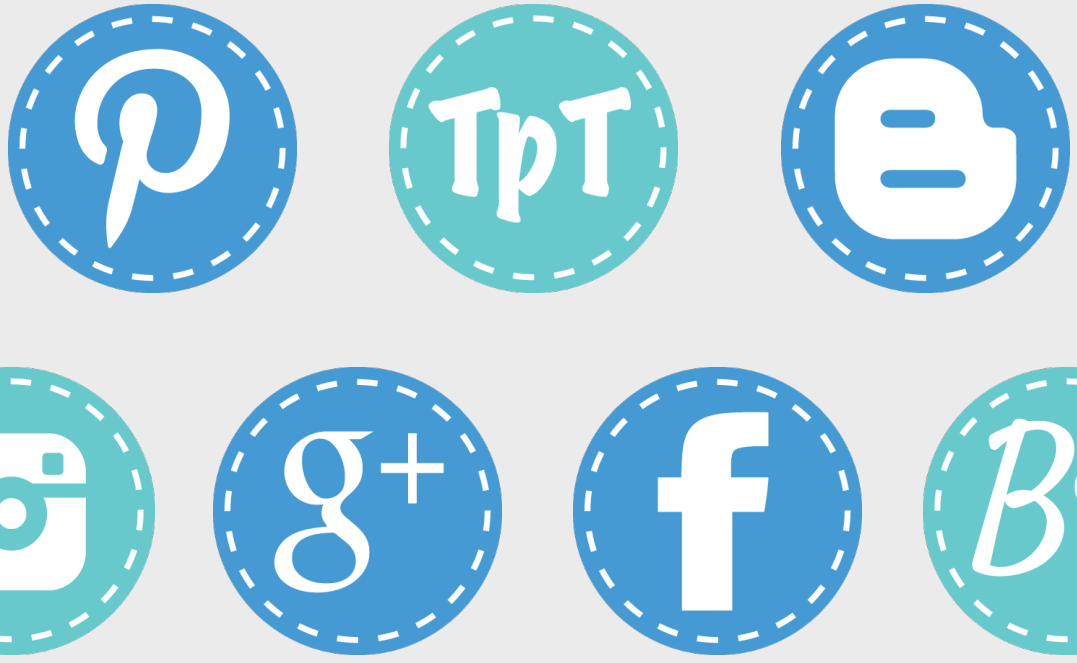

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