

BIG 10

MEASURING ANGLES

Ten ways to reinforce
use of a protractor and
prep for testing!



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To the Teacher

- This product is meant to be a no frills, all action tool for cementing the concept of measuring angles using a protractor in preparation for standardized testing.
- Each activity can be completed in a variety of ways to fit your classroom needs.
- It was created with the following standards in mind:
 - TEKS:
 - 4.7c determine the approximate measures of angles in degrees to the nearest whole number using a protractor
 - 4.7d draw an angle with a given measurement
 - 4.7e determine the measure of an unknown angle formed by two non-overlapping adjacent angles given one or both angle measurements
 - Common Core
 - CCSS.Math.Content.4.MD.C.6 Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.
 - CCSS.Math.Content.4.MD.C.7 Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., but using an equations with a symbol for the unknown angle measure.

Prep Recommendations

- Each activity is created in black and white to conserve color ink
 - Using colored paper to differentiate different parts in each activity will help students to stay organized.
- If you plan to use the activities for small group or partner activities over time, I would recommend laminating them for durability.
- There are printed protractors included for classrooms that do not have access to protractors. Copy these onto transparencies to create your own protractors.

Content Vocabulary

measure

protractor

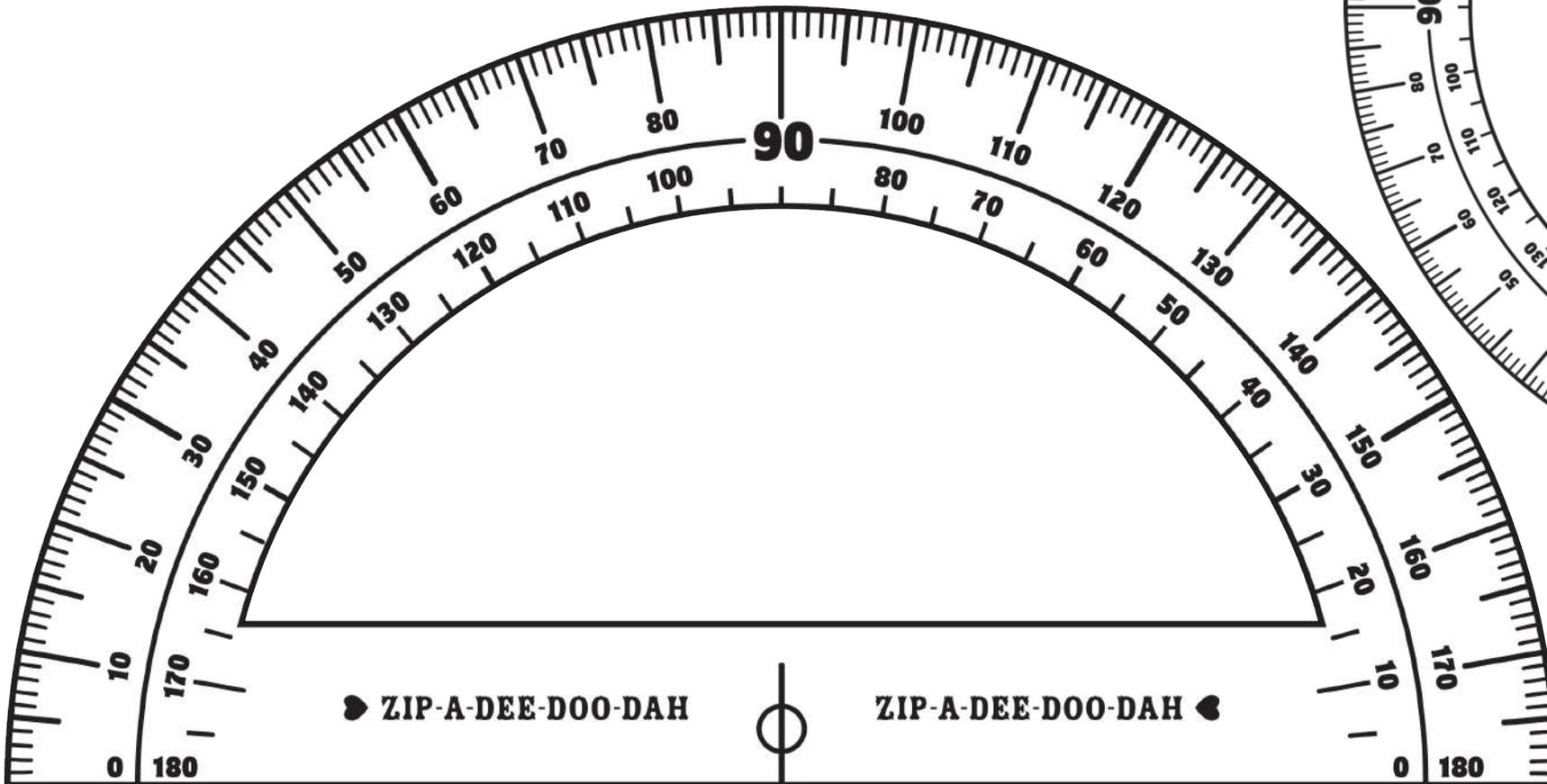
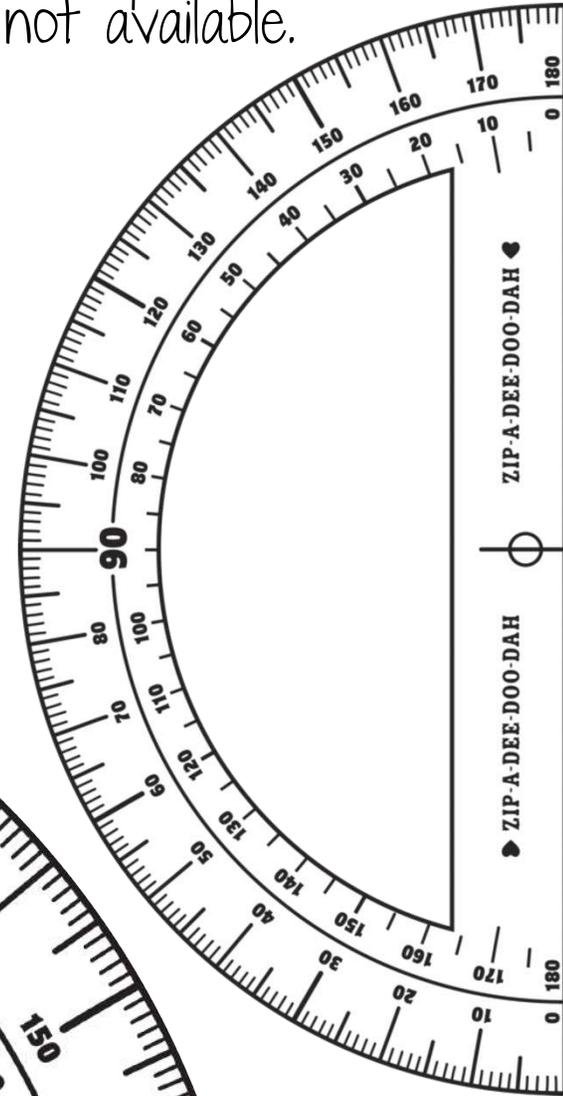
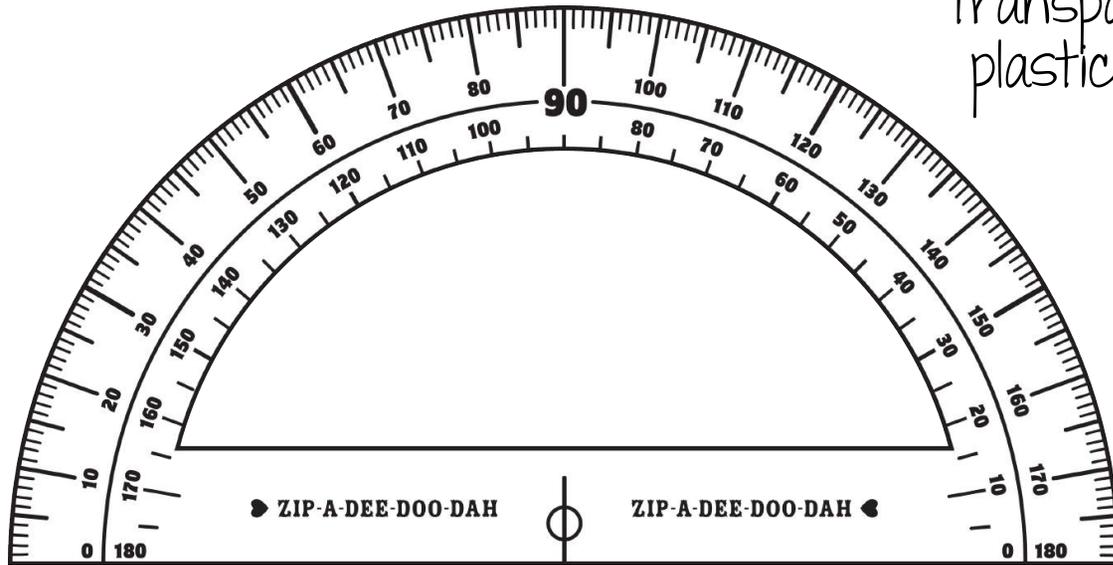
difference

angle

degree

diagram

These protractors can be copied onto transparencies and used in place of plastic protractors if not available.



Protractor Project

Use a paper plate to create a protractor to use when measuring angles.

How-To

Write a step-by-step explanation of how to use a protractor.

Managing Measurement

Measure the angle using the protractor that it is placed on.
Record the measurements.

Matching Measurements

Measure each angle using a protractor, then match it to the card with the correct measurement. Record your matches on your answer sheet.

Teacher Suggestions

Matching Measurements

- In this activity students are asked to use a protractor to measure angles then match them to their measurement
- This activity can be used in a variety of ways
 - Small group with teacher guidance
 - A partner activity to practice
 - Independently to assess

Materials

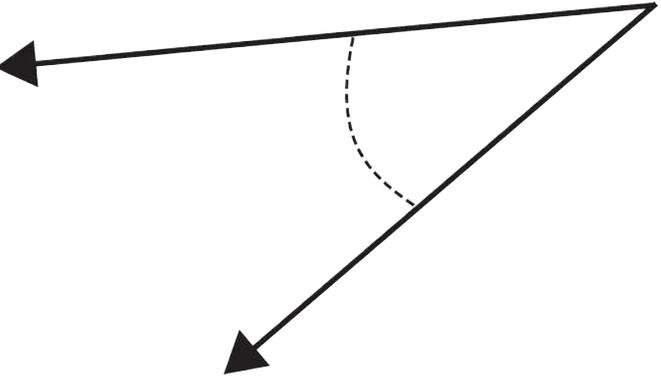
Included:

- Angles cards
- Recording sheet
- Answer Key
- Printed Protractors
(these can be copied on transparencies to create protractors for your students)

Not Included:

- Pencil

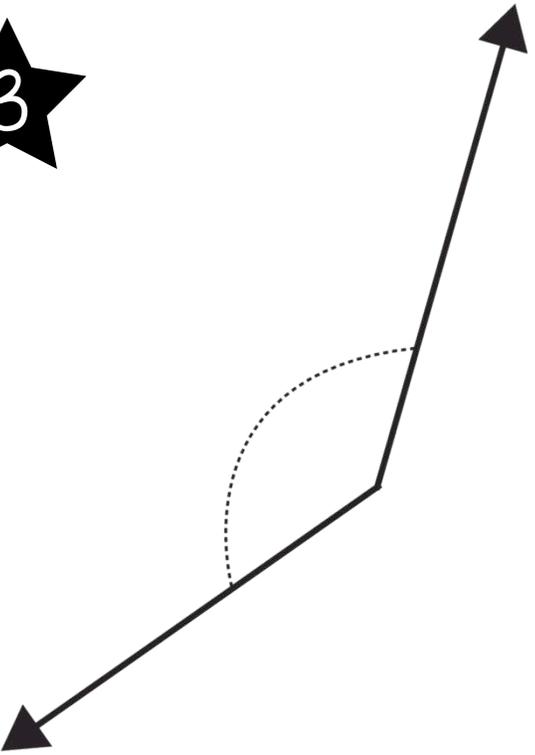
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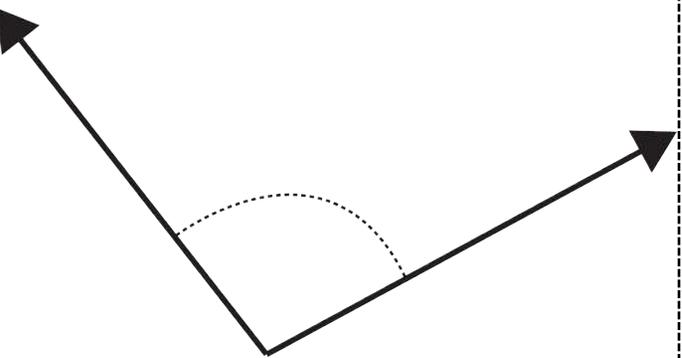
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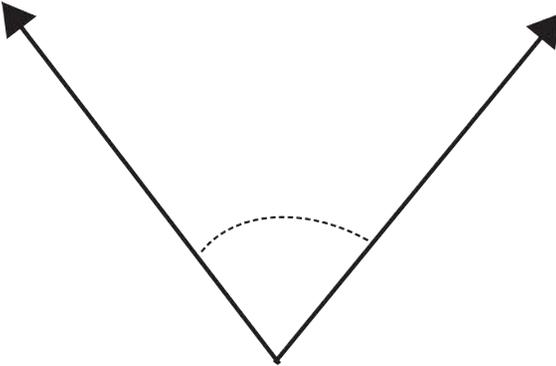
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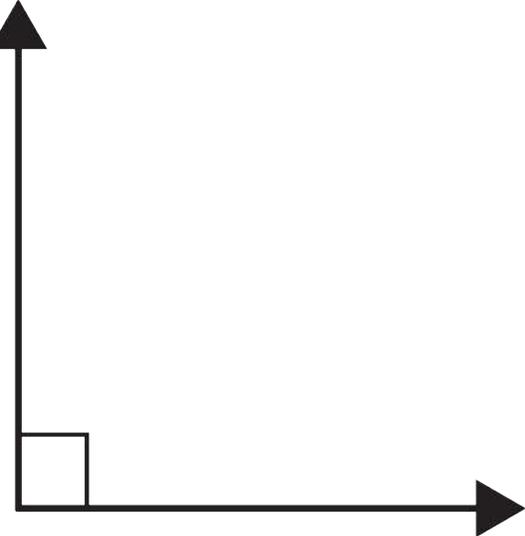
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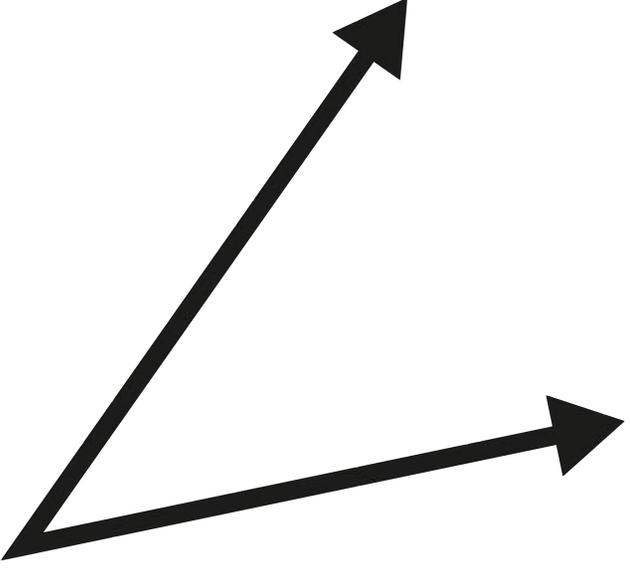
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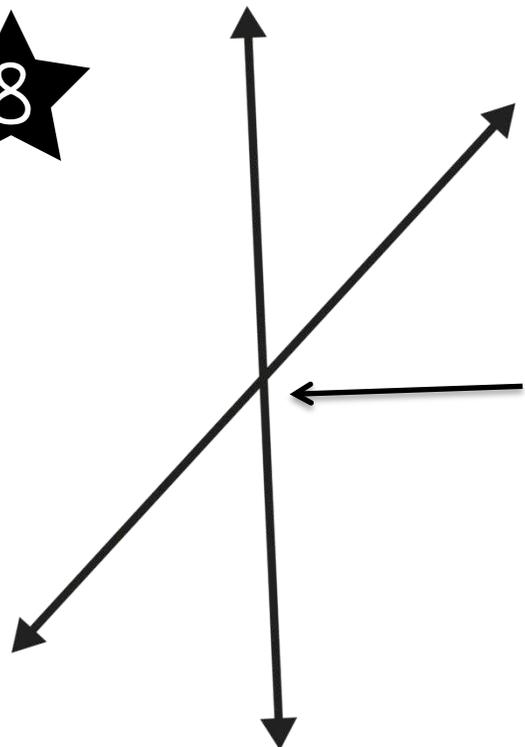
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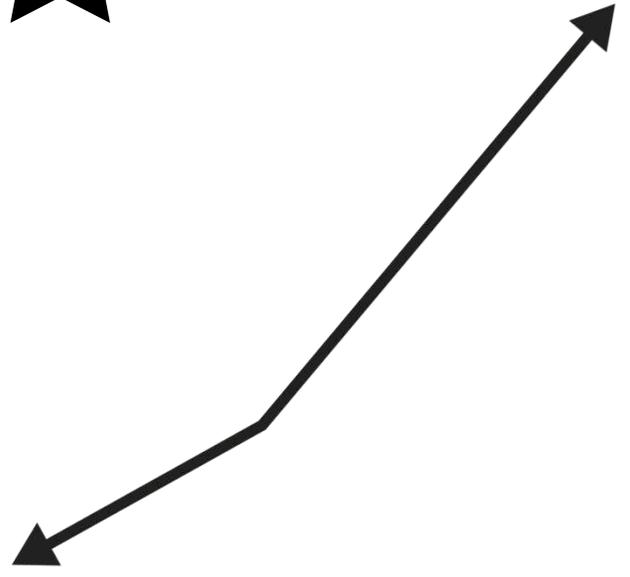
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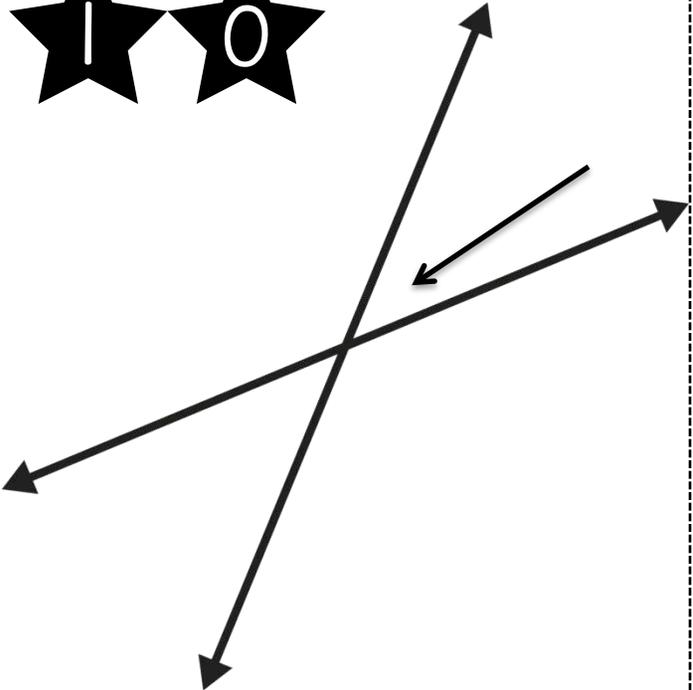
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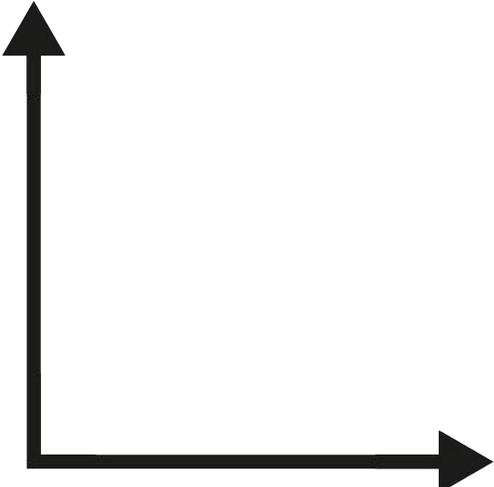
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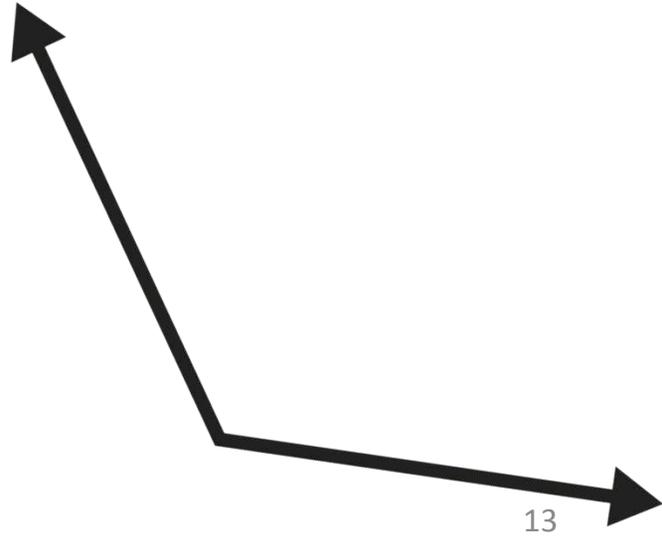
10



11



12



35°

135°

159°

100°

43°

180°

75°

45°

123°

90°

142°

90°

Name _____ # _____

Date _____

Matching Measurements Recording Sheet

Measure each angle using a protractor, then match it to the card with the correct measurement.
Record your matches on your answer sheet.

Matching Measurements Answer Key

★1 35°	★2 180°	★3 142°	★4 100°
★5 75°	★6 90°	★7 43°	★8 135°
★9 159°	★1★0 45°	★1★1 90°	★1★2 123°

Clock Angles

Measure the angle that the hands on each of the clocks makes. Record your measurements on the recording sheet.

Angle QR Codes

Scan the start QR code and follow the directions given until you find your way to the end. You should use all cards.

Angle Alphabet

Use a protractor to measure the specified angle of each letter.

Angle Search

Search for angles in your classroom. Sketch the angle on your recording sheet, and then use a protractor to measure the actual angle.

Label your sketch.

Option A

Angle Search

Search for angles in your classroom. Use Skitch to take a picture of the angle and then use a protractor to label the angle with the correct measurement.

Option B

Draw It!

Use a protractor to draw an angle with the given measurement.

Missing Measurements

Use addition and subtraction to find the missing measurements in each diagram.
Record your answer.

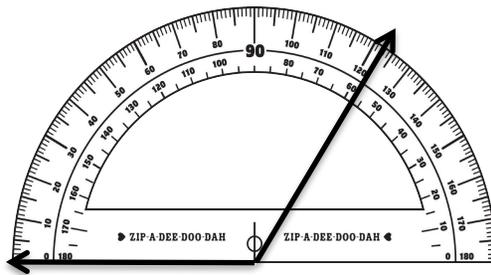
Name _____

Date _____

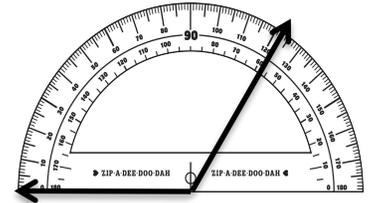
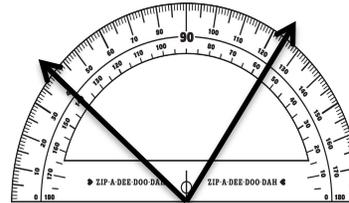
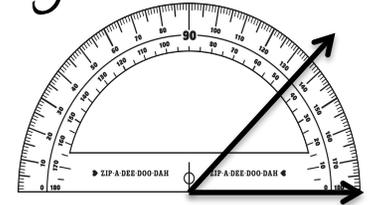
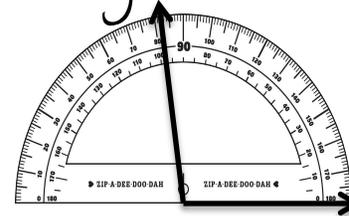
Test Bridge Questions

What is the measure of the angle shown?

- a. 90°
- b. 112°
- c. 44°
- d. 122°



Which picture below shows an angle measuring 85° ?



If one section of a right angle measure 16° , what does the rest of the angle measure?

- a. 90°
- b. 65°
- c. 74°
- d. 84°

A straight line is split into three angles. The first two angles each measure 35° , what is the measure of the third angle?

- a. 110°
- b. 105°
- c. 20°
- d. 180°

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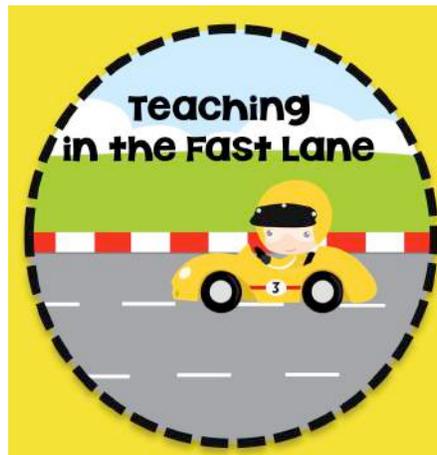
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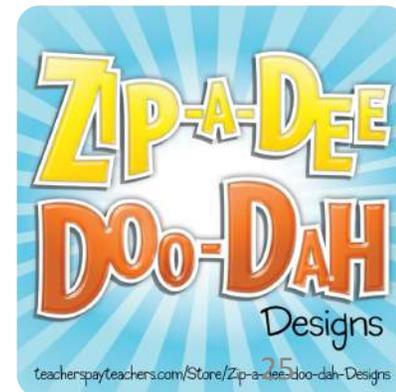
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