

Objective 4: The student will demonstrate an understanding of the concepts and uses of measurement.

Knowledge and Skills Statement

(6.8) Measurement: The student solves application problems involving estimation and measurement of length, area, time, temperature, volume, weight, and angles.

Student Expectation

(C) The student is expected to measure angles.

ACTIVITY

Measure That Angle!

Materials

For each student:

Measure That Angle! design sheet

Protractor

Measure That Angle! answer key

Procedure

Distribute materials. Each student numbers a sheet of notebook paper 1 through 25. Using a protractor, the student finds the angle measure of the twenty-five angles in the *Measure That Angle!* design sheet. Each student writes the angle measure next to the corresponding number of the angle and checks her or his answers with the *Measure That Angle!* answer key.

Note: The angle measure may be off by one degree more or less than the angle measure on the answer key.

Enrichment

Point out that angle 1 is 90° , so angle 1 is a right angle. Then, show students that the sums of the measures of angles 2, 3, and 4 is 180° because angles 2, 3, and 4 form a straight line.

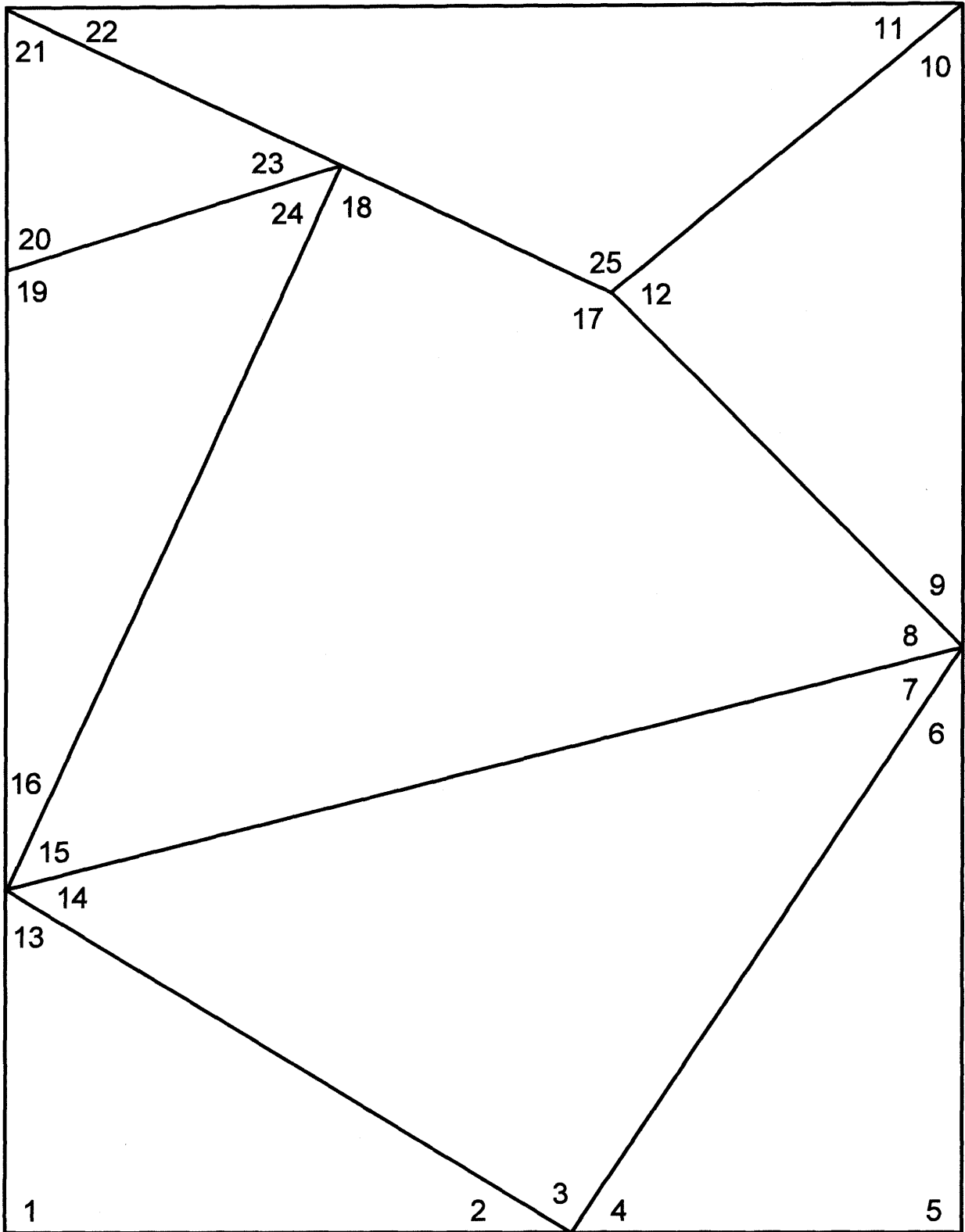
Students find twelve additional facts that can be verified using the design sheet and the answer key.

Examples:

1. The sum of the measures of angles 9, 10, and 12 is 180° because these three angles are in the same triangle.
2. The sum of the measures of angles 8, 15, 17, and 18 is 360° because these 4 angles are in the same quadrilateral.
3. Angles 10 and 15 have the same measure.
4. The sum of the measures of angles 12, 17, and 25 is 360° .



Measure That Angle! Design Sheet

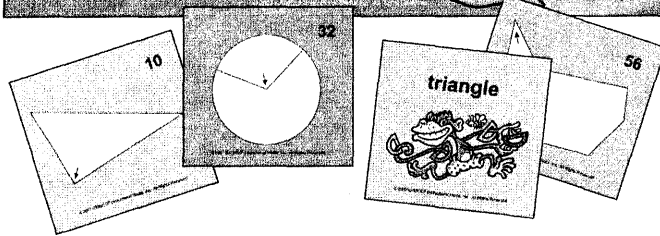
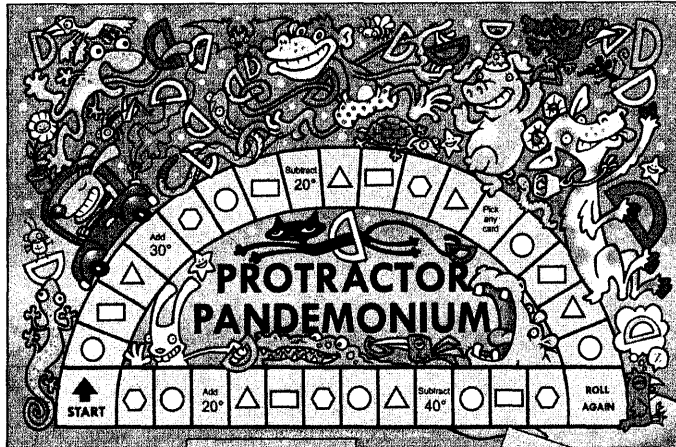


Objective 4/6.8C

Measure angles.

Another great game that can be used to develop this TEKS is ***Protractor Pandemonium***.

For more information, call 254.947.7283 or e-mail gamegallery@kamico.com.



Developmental Series Sample

2008 Edition

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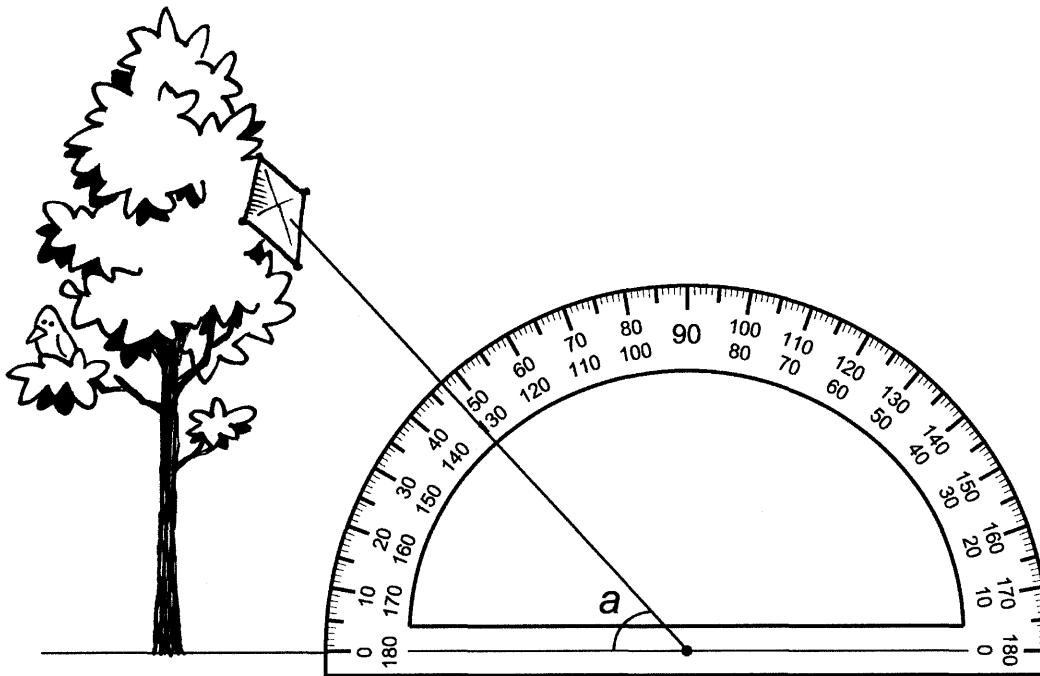
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(Question 1 of 6)

- 1 Travis just spent \$12.90 on a super-high-flying kite. The wind is so gusty that Travis ties the string of his kite to a stake and then hammers the stake into the ground. As the wind dies down, the kite blows into a tree, as shown in the drawing.



To the nearest degree, what is the value of a , the measure of the angle formed by the kite's string and the ground?

- A 133°
- B 77°
- C 47°
- D 37°

