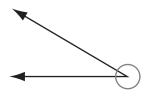
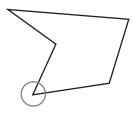
Investigating Angles

Tell whether each marked angle looks acute, right, or obtuse.

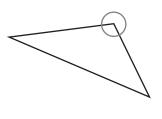
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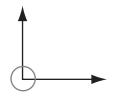
2



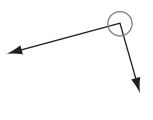
B



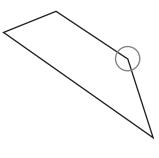
4



6



6





Test Prep

following is false?

A.
$$1.4 \times 2.88 = 4.032$$

B.
$$14 \times 28.8 = 403.2$$

C.
$$1.4 \times 28.8 = 40.32$$

D.
$$0.14 \times 0.288 = 0.4032$$

8 $26 \times 317 = 8,242$. Which of the following is false?

A.
$$2.6 \times 3.17 = 8.242$$

B.
$$0.26 \times 0.317 = 0.8242$$

C.
$$2.6 \times 31.7 = 82.42$$

D.
$$26 \times 31.7 = 824.2$$

Classifying Angles and Triangles

Classify each triangle by the lengths of its sides or measures of its angles. Be as specific as possible. The measurements tell how the triangles should be drawn, but the pictures are not correct. Do not judge anything by the way it looks.







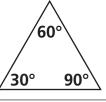
E

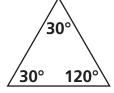


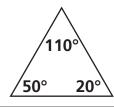
F

| | \ |
|------|------|
| 1.9/ | \1.9 |
| | |
| 1. | .2 |

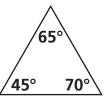
| | Scalene | Isosceles | Equilateral |
|---|---------|-----------|-------------|
| A | | | |
| В | | X | |
| C | | | |
| D | | | |
| E | | | |
| F | | | |



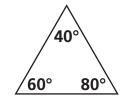


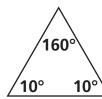


Acute | Obtuse | Right G н



K





J K L

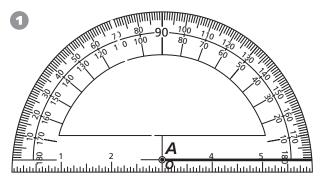


Test Prep

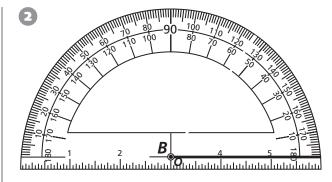
2 In the theater, there are 20 rows of seats with 15 seats in each row. If 155 adults and 76 children attend a performance at the theater, how many seats will be empty? Explain how you know.

Constructing Triangles

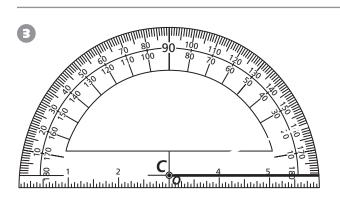
Use a straightedge to draw a line to make the angles.



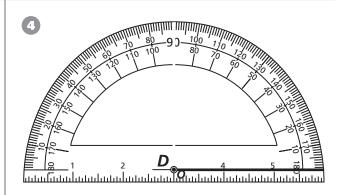
measure of $\angle A$: 110°



measure of $\angle B$: 55°



measure of $\angle C$: 20°



measure of $\angle D$: 90°

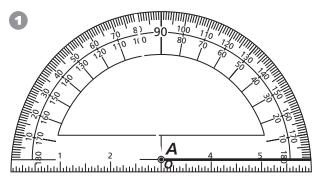
Test Prep

- **5** Which is a reasonable way to approximate the value of 42.319 - 19.8?
 - **A.** 42 20
 - **B.** (42 19) + (319 8)
 - **C.** 42,319 198
 - **D.** 423 198

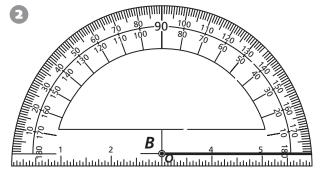
- 6 Which is a reasonable estimate for 13.079×4.82 ?
 - **A.** 130
 - **B.** 65
 - **C.** 480
 - **D.** 18

Constructing Similar Triangles

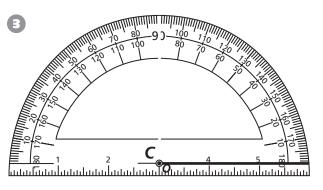
Use a straightedge to draw a line to make the angles.



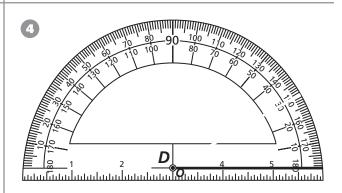
measure of $\angle A$: 100°



measure of $\angle B$: 45°

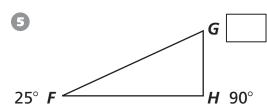


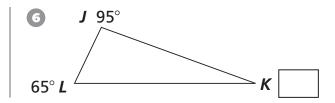
measure of $\angle C$: 90°



measure of $\angle D$: 30°

Record the angle measures.







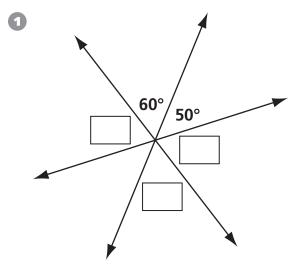
Test Prep

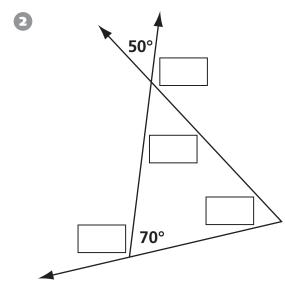
Maria drew a right triangle. She said one angle was right, one angle was acute, and one angle was obtuse. Is this possible? Explain how you know.

| 2 |
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Angles Formed by Intersecting Lines

Use your knowledge of straight angles and opposite angles to find the missing angle measures. (No protractors, please!)





Test Prep

3 Read, but do NOT solve this problem.

There are 36 students to seat in the library. If each table holds 8 students, what is the fewest number of tables needed for all to sit?

If there is a remainder, what should you do about it? Explain.

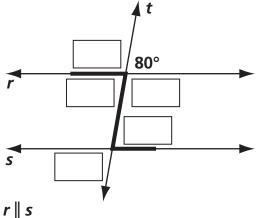
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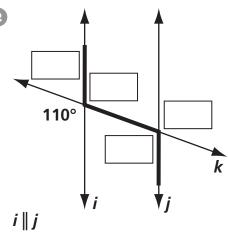
Chapter 9 Practice Book **P75**

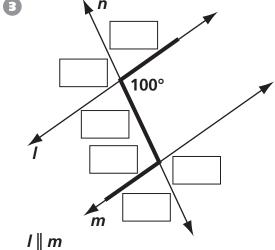
Angles Formed by a Line Intersecting Parallel Lines

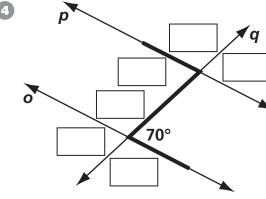
Without using a protractor, use your knowledge about Zs, straight angles, and opposite angles to figure out the missing angle measures. Do you see other Zs?











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Test Prep

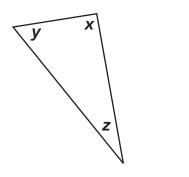
5 Which of the following is NOT true?

A.
$$x + y + z = 180^{\circ}$$

B. If
$$x = 90^{\circ}$$
, then $y + z = 90^{\circ}$

C. If
$$x = 90^{\circ}$$
, then $y = 90^{\circ} - z$

D.
$$x + y + z = 90^{\circ}$$



Comparing and Classifying Quadrilaterals

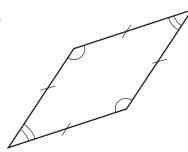
Congruent sides and angles have the same markings. Circle ALL the names that match each quadrilateral.

1



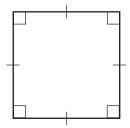
rectangle parallelogram trapezoid rhombus

2

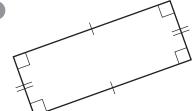


square rhombus rectangle parallelogram

3



rhombus rectangle square parallelogram 4



parallelogram rhombus rectangle square



Test Prep

5 In $\triangle RST$, the measure of $\angle S$ is 40° and the measure of $\angle T$ is 50°. What is the measure of $\angle R$? Explain how you know.

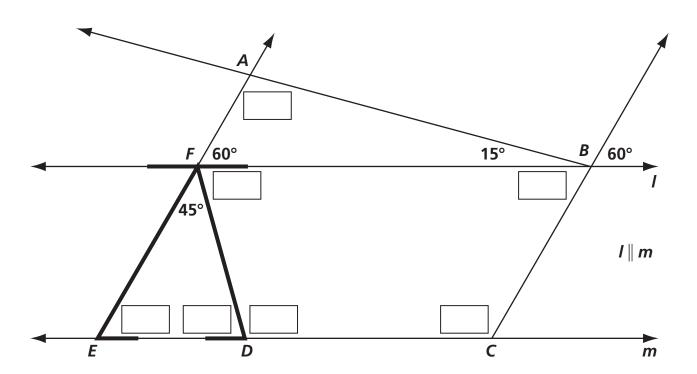
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Chapter 9 Practice Book P77

Investigating Quadrilaterals

Without using a protractor, use your knowledge about Zs, straight angles, opposite angles, and the sum of the measures of the angles in triangles and quadrilaterals to find the missing measurements.







Test Prep

- 2 A triangle with sides measuring 3 cm, 5 cm, and 3 cm must be:
 - A. isosceles
 - B. acute
 - C. scalene
 - D. equilateral

- A certain quadrilateral has only 2 lines of symmetry, 2 pairs of parallel sides, and 4 right angles. It must be a:
 - A. square
 - **B.** rhombus
 - C. rectangle
 - D. trapezoid