

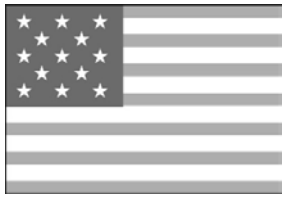
LESSON
5

Geometric Figures

Practice B: Congruent Figures

Identify any congruent figures.

1.

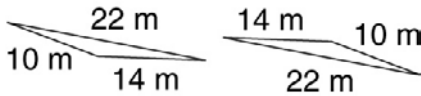


2.

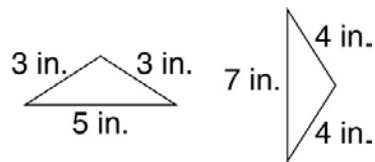


Determine whether the triangles are congruent.

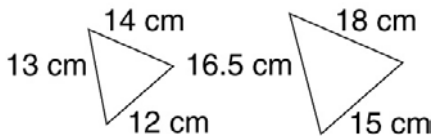
3.



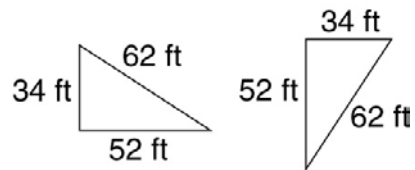
4.



5.

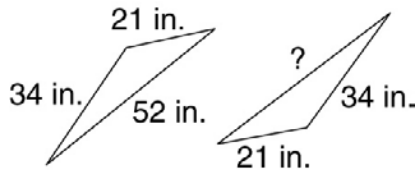


6.



Determine the unknown measure or measures in each set of congruent polygons.

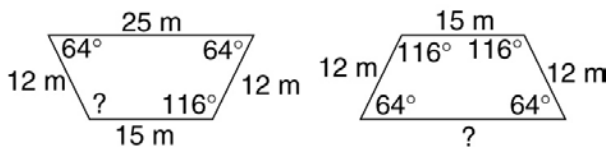
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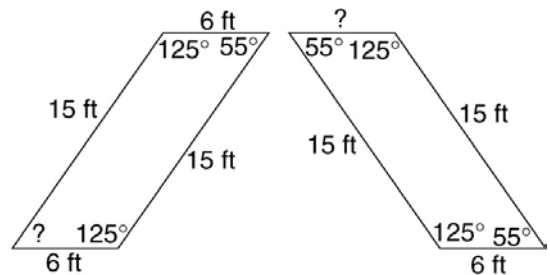
8.

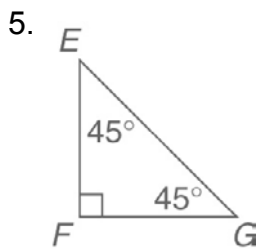


9.

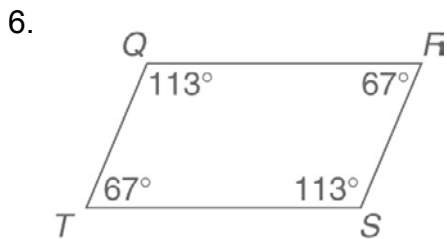


10.





right triangle



parallelogram

Problem Solving

- | | |
|--------------------|-----------|
| 1. one-way sign | 2. 1,080° |
| 3. school crossing | 4. 60° |
| 5. B | 6. H |
| 7. D | 8. F |

Reading Strategies

- 4
- Possible answer: the pattern in the list
- 5
- 6

Puzzles, Twisters & Teasers

- | | |
|---------|---------|
| 1. 37° | 2. 60° |
| 3. 110° | 4. 118° |
| 5. 50° | 6. 30° |

C U R T A I N S

Answers for Lesson 5

Practice A

- Yes; the spokes on the wheel are congruent.
- Yes; the half-circles are congruent.
- yes
- yes
- no
- no
- 15 cm
- 38°
- 105°
- 21 ft

Practice B

- The short stripes are congruent, the stars are congruent, and the long stripes are congruent.
- There are no congruent figures in the picture.
- yes
- no
- no
- yes
- 52 in.
- 12 cm
- 116°; 25 m
- 55°; 6 ft

Practice C

- No congruent figures in the picture
- The two small triangles are congruent, and the two larger triangles are congruent.
- yes
- no
- 34°; 12 in.
- 84°; 11 cm
- 99°; 16 ft
- 52 ft; 105°
- Two hexagons are congruent if corresponding sides and angles are equivalent.

Review for Mastery

- | | |
|--------------------|-----------------|
| 1. \overline{EF} | 2. $\angle HEF$ |
| 3. \overline{CD} | 4. $\angle CBA$ |
| 5. 100° | 6. 7 in. |
| 7. 9 in. | |

Challenge

- | | |
|-------------|-------------|
| 1. KNE | 2. EN, DY |
| 3. Kennedy | 4. RR, AH |
| 5. NO, IS | 6. Harrison |
| 7. OO, CL | 8. ED, IG |
| 9. Coolidge | |

Problem Solving

- Yes, they are both rectangles and both 94 ft by 50 ft.
- No, they are not the same size.
- No, they are not the same size.