FOA 2, Quadrilaterals & Metric Conversions
Study Guide

Directions: List the properties of the following polygons:

A. Quadrilateral

1 _____

2 _____

B. Parallelogram

1 _____

2 _____

Diagonals: _____

C. Rectangle

1 _____

2 _____

3 _____

Diagonals: _____

D. Rhombus

1 _____

2 _____

3 _____

Diagonals: _____

E. Trapezoid

1 _____

F. Isosceles Trapezoid

1 _____

2 _____

1. What property is common to all rectangles?

2. What property is common to all trapezoids?

3. What property is common to all rhombi?

4. What property is common to all squares?

5. What property is common to all parallelograms?

6. What property is common to all squares and rhombi?

7. What property is common to call parallelograms and rectangles?

8. What property is common to all parallelograms and trapezoids?

9. What property is common to all squares and rectangles?

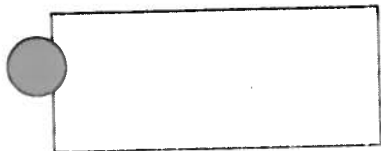10. What property is common to all rectangles and rhombi?

11. Which quadrilaterals have diagonals that bisect each other?

12. Which quadrilaterals have diagonals that are congruent?

13. Which quadrilaterals have diagonals that are perpendicular bisectors?

14. Which quadrilaterals have diagonals that are congruent and bisect each other?

· List ALL possible names for the shapes below.  CIRCLE the best name for each shape.
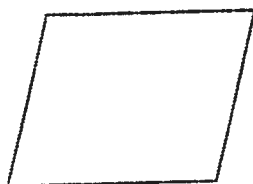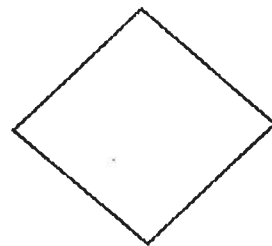
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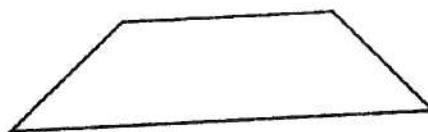_____          _____
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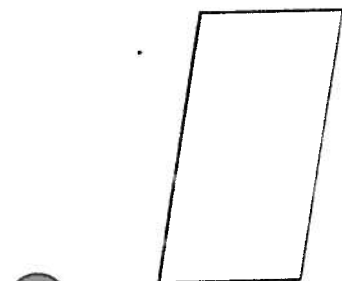
Draw 2 different quadrilaterals for each listed below.  Use hatch marks and right angle symbols where applicable.  Include diagonals.

| parallelogram | rectangle |
|---|---|
| rhombus | square |
| trapezoid | isosceles trapezoid |

# Review

| | |
|---|---|
| 1. The cafeteria baked 238 cookies. Fourth-fifths of the cookies were sold at lunch. How many cookies were sold? | 2. Mrs. Corrigan agreed to pay Jose $4.50 per hour for studying. How long would it take Jose to earn $100? |
| 3. If 1.5 inches on a map represents 36 miles, how far would it be on a map to represent 300 miles? | 4. If 1 pound equals 0.45 kilograms, how many pounds would an object weight, if it was 330 kilograms? Round to the nearest tenth. |
| 5. How long, in yards, would a rope be if it measured 8 meters? | 6. Solve and graph the following: $2\frac{3}{4} + n \le 1\frac{1}{4}$ |

7. Which value of n makes the followiong true?    $-8 < n + 2$

A. -20

B. -16

C. -10

D. -8

8. Draw a number line model for each the following:

A. 5 x (-2)

B. -7 + 12

C. -3 - (-5)

9. Write 3 different verbal phrases for: 3x - 4 = 2

1.) _____

2.) _____

3.) _____