

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_ Score: \_\_\_\_\_

### Unit 8 Day 5 - The Think Method Assignment

You will be given information about a quadrilateral. Using only the information given, decide which type of quadrilateral is described. Be as specific as you can. **Make a rough sketch.**



Cross off each quadrilateral as you eliminate it, until you narrow it down to one possibility.

1. Quadrilateral PROM.

Slope of  $\overline{PO}$ :  $\frac{3}{4}$       Slope of  $\overline{RM}$ :  $-\frac{4}{3}$   
 Midpoint of  $\overline{PO}$ : (-6, -7)      Midpoint of  $\overline{RM}$ : (-6, -7)  
 PO = 10      RM = 20

Parallelogram      rectangle      rhombus      square      trapezoid      isos. trap      kite

2. Quadrilateral SLOW.

Slope of  $\overline{SO}$ :  $-\frac{4}{6}$       Slope of  $\overline{LW}$ :  $\frac{18}{12}$   
 Midpoint of  $\overline{SO}$ : (12, 7)      Midpoint of  $\overline{LW}$ : (10, 4)  
 SO = 14.422      LW = 21.633

Parallelogram      rectangle      rhombus      square      trapezoid      isos. trap      kite

3. Quadrilateral HIPY.

Slope of  $\overline{HI}$ :  $-\frac{1}{5}$       Slope of  $\overline{IP}$ : 5      Slope of  $\overline{PY}$ :  $-\frac{1}{5}$       Slope of  $\overline{HY}$ : 5  
 HI = 12.5      IP = 19.7      PY = 12.5      HY = 19.7

Parallelogram      rectangle      rhombus      square      trapezoid      isos. trap      kite

4. Quadrilateral LOST.

Slope of  $\overline{LO}$ :  $-\frac{5}{7}$       Slope of  $\overline{OS}$ :  $\frac{7}{10}$       Slope of  $\overline{ST}$ :  $-\frac{5}{7}$       Slope of  $\overline{TL}$ :  $\frac{7}{10}$   
 LO = 12.5      OS = 12.5      ST = 12.5      TL = 12.5

Parallelogram      rectangle      rhombus      square      trapezoid      isos. trap      kite

5. Quadrilateral LIFT.

Slope of  $\overline{LF}$ : 18      Slope of  $\overline{IT}$ :  $\frac{7}{9}$   
 Midpoint of  $\overline{LF}$ : (15.5, 9)      Midpoint of  $\overline{IT}$ : (14.5, 6.5)      LF = 18.028      IT = 11.402

Parallelogram      rectangle      rhombus      square      trapezoid      isos. trap      kite

6. Quadrilateral DONE.

Slope of  $\overline{DO}$ :  $\frac{7}{3}$

DO = 9.4

Slope of  $\overline{ON}$ :  $\frac{3}{5}$

ON = 12.5

Slope of  $\overline{NE}$ :  $-\frac{4}{9}$

NE = 9.4

Slope of  $\overline{ED}$ :  $\frac{3}{5}$

ED = 17

Parallelogram      rectangle      rhombus      square      trapezoid      isos. trap      kite

7. Quadrilateral CRIB.

Slope of  $\overline{CI}$ :  $-\frac{1}{5}$

Midpoint of  $\overline{CI}$ : (8, 23)  
CI = 5.099

Slope of  $\overline{RB}$ : 5

Midpoint of  $\overline{RB}$ : (8, 23)  
RB = 5.099

Parallelogram      rectangle      rhombus      square      trapezoid      isos. trap      kite

8. Quadrilateral ABCD

Slope of  $\overline{AB}$ :  $\frac{4}{3}$

AB = 5 cm,

Midpoint of  $\overline{DB}$  is (4, 1)

Slope of  $\overline{BC}$ :  $-\frac{4}{3}$

BC = 5 cm,

CD = 5 cm

Midpoint of  $\overline{AC}$  is (4, 1)

Slope of  $\overline{CD}$ :  $\frac{4}{3}$

DA = 5 cm,

AC = 6 cm,

Slope of  $\overline{AD}$ :  $-\frac{4}{3}$

and BD = 8 cm.

Parallelogram      rectangle      rhombus      square      trapezoid      isos. trap      kite

9. Quadrilateral EFGH

EF = 3 cm,

Slope of  $\overline{EH}$ : 2,

Midpoint of  $\overline{EG}$ : (-1, 1),

FG = 2.25 cm,

Slope of  $\overline{EF}$ : 0,

Midpoint of  $\overline{HF}$ : (-2, 1)

HG = 5 cm,

Slope of  $\overline{GF}$ : -2,

HE = 2.25 cm

Slope of  $\overline{GH}$ : 0

Parallelogram      rectangle      rhombus      square      trapezoid      isos. trap      kite

10. Quadrilateral BARN.

Slope of  $\overline{BA}$ :  $-\frac{3}{5}$

BA = 14

Slope of  $\overline{AR}$ :  $\frac{10}{6}$

AR = 14

Slope of  $\overline{RN}$ :  $-\frac{3}{5}$

RN = 14

Slope of  $\overline{NB}$ :  $\frac{5}{3}$

NB = 14

Parallelogram      rectangle      rhombus      square      trapezoid      isos. trap      kite

Effective practice is consistent, intensely focused, and targets the edge of one's ability.