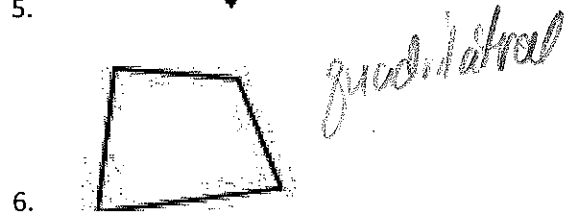
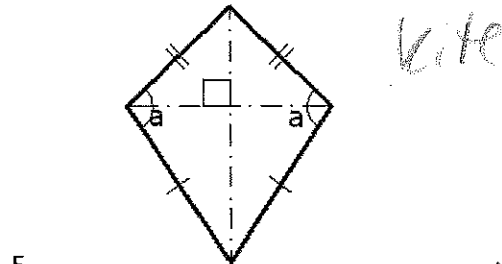
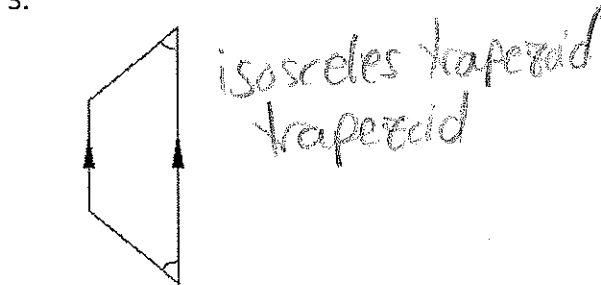
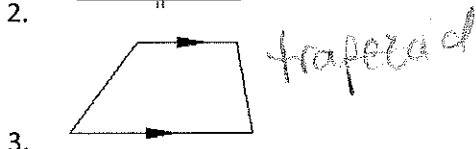
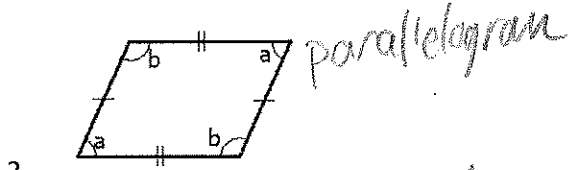
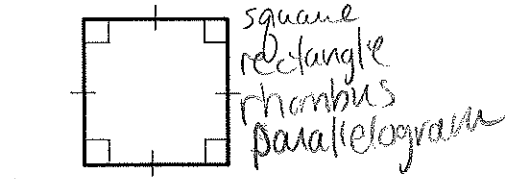


Quadrilaterals Review

For numbers 1-6 classify the quadrilaterals in all ways possible.



For numbers 7-13 determine if the statements are true or false.

7. All trapezoids are quadrilaterals

T

8. All rectangles are squares

F

9. All rhombi are parallelograms

T

10. All parallelograms are rhombi

F

11. All trapezoids are isosceles

F

12. All kites are quadrilaterals

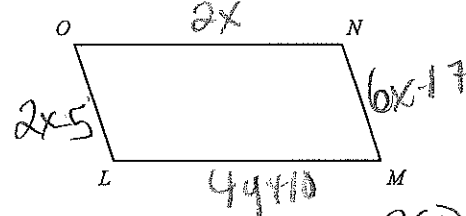
T

13. All quadrilaterals are parallelograms.

F

14. Choose three true statements above and draw a venn-diagram to represent the relationship

15. If LMNO is a parallelogram, $OL = 2x - 5$, $NM = 6x - 17$, $ON = 2x$, and $LM = 4y + 10$ find the values of x and y .



$$2x - 5 = 6x - 17$$

$$12 = 4x$$

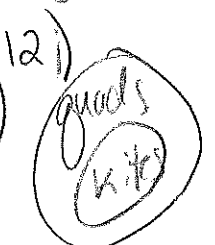
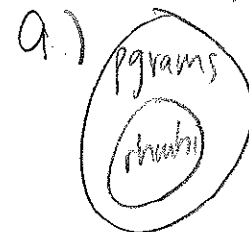
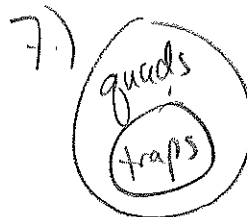
$$3 = x$$

$$2(3) = 4y + 10$$

$$6 = 4y + 10$$

$$-4 = 4y$$

$$-1 = y$$

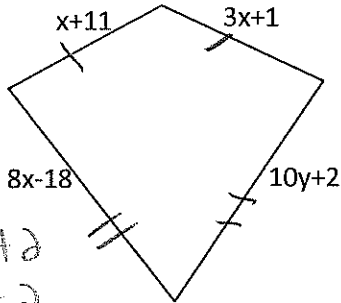


16. Find the values of x and y for the kite below.

$$x+11 = 3x+1$$

$$-2x = -10$$

$$x = 5$$



$$8(5) - 18 = 10y + 2$$

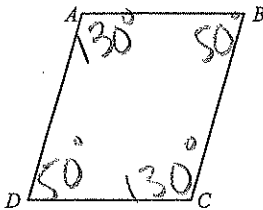
$$40 - 18 = 10y + 2$$

$$22 = 10y + 2$$

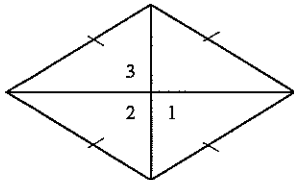
$$20 = 10y$$

$$2 = y$$

17. If the measure of angle DAB is 130 degrees, find the remaining angle measures.



18. Find the variable values for x , y , and z for the following rhombus. $m\angle 1 = 9x$, $m\angle 2 = 3x + 10y$, $m\angle 3 = 15z$.



$$\angle 1 = 90$$

$$90 = 9x$$

$$10 = x$$

$$\angle 2 = 90$$

$$90 = 3x + 10y$$

$$90 = 3(10) + 10y$$

$$90 = 30 + 10y$$

$$60 = 10y$$

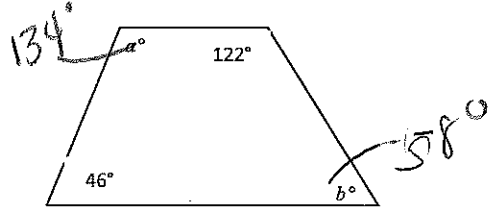
$$6 = y$$

$$\angle 3 = 90$$

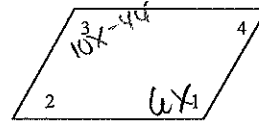
$$90 = 15z$$

$$6 = z$$

19. Find the angle measures. Note: the diagram is not isosceles.



20. Find the value of x if $m\angle 1 = 6x$ and $m\angle 3 = 10x - 44$

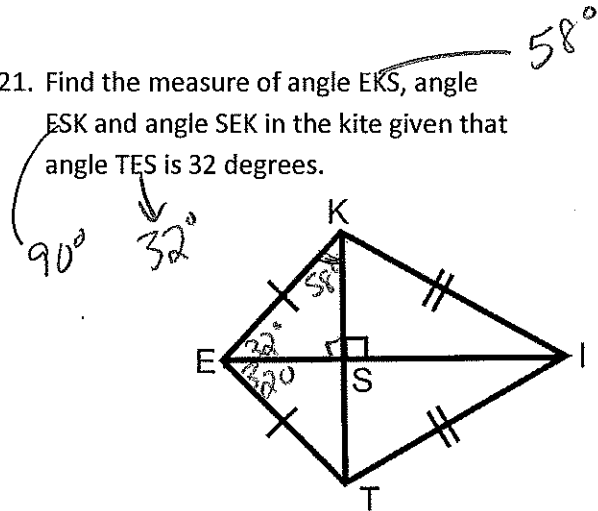


$$6x = 10x - 44$$

$$-4x = -44$$

$$x = 11$$

21. Find the measure of angle EKS, angle ESK and angle SEK in the kite given that angle TES is 32 degrees.



22. Review – use the diagram below

- Name 3 collinear points A, O, C
- Give another name for line AC. \overleftrightarrow{AB}
- Name the plane in the diagram. AGE

