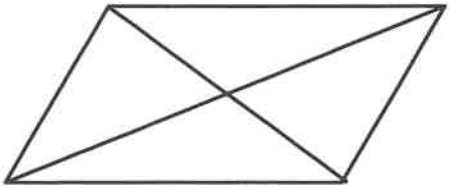
My

QUADRILATERALS

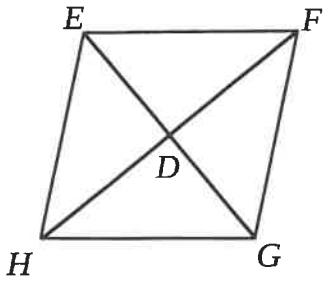
Flip Book

Properties of Parallelograms

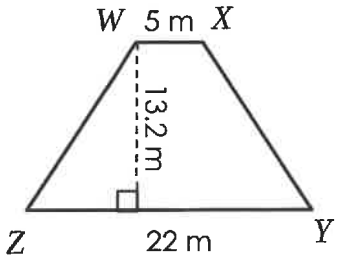


- Opposite sides are _____.
- Opposite sides are _____.
- Opposite angles are _____.
- Consecutive angles are _____.
- Diagonals _____ each other.

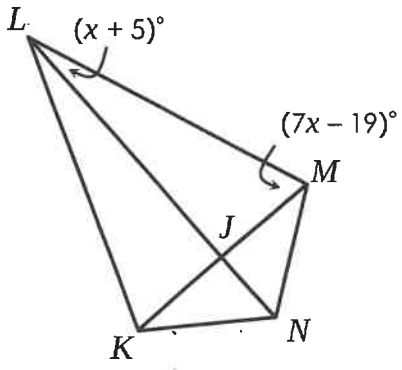
26 If $EFGH$ is a rhombus, $ED = 5x - 1$, $DG = 3x + 5$, and $FH = 34.2$, find FG.



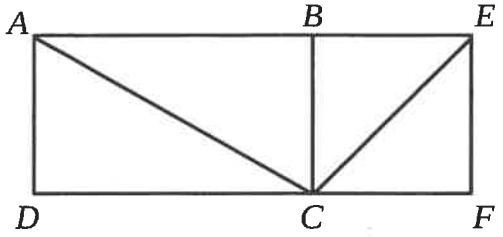
27 Find the perimeter of $WXYZ$ if it is an isosceles trapezoid.



28 If $KLMN$ is a kite find $m\angle KLM$.

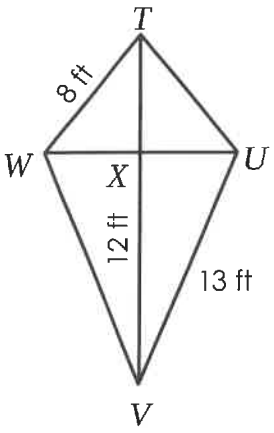


29 If $ABCD$ is a rectangle, $BEFC$ is a square, $AC = 24.1$, and $AB = 20.9$, find CE.

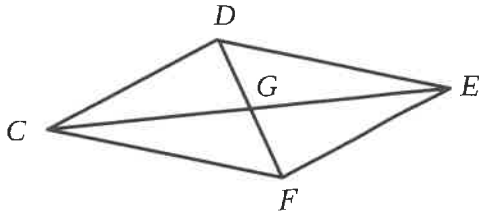


MIXED PRACTICE

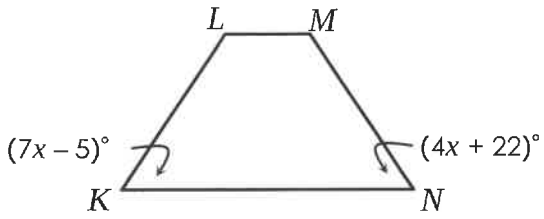
22 If $TUVW$ is a kite, find XT.



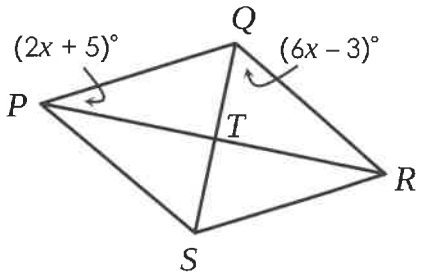
23 If $CDEF$ is a parallelogram, $CG = 3x + 2$, and $CE = 9x - 20$, find GE.



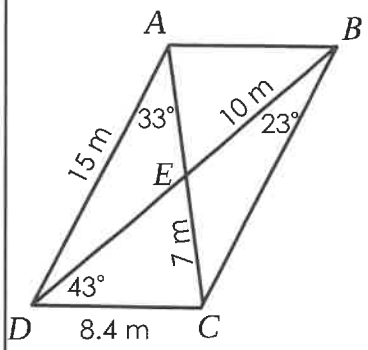
24 If $KLMN$ is an isosceles trapezoid, find the measure of $\angle L$.



25 If $PQRS$ is a rhombus, find $m\angle QRS$.



1 If $ABCD$ is a parallelogram, find each missing measure.



a) AB = _____

b) AC = _____

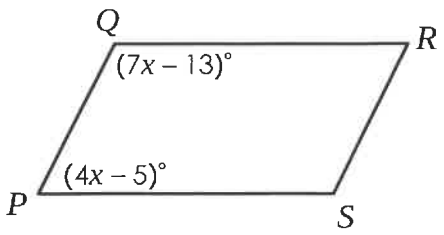
c) DE = _____

d) $m\angle BAD$ = _____

e) $m\angle ADC$ = _____

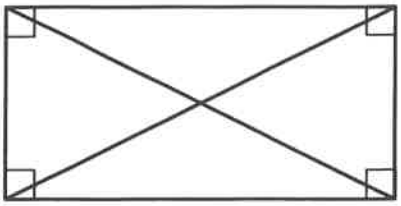
f) $m\angle ABD$ = _____

2 If $PQRS$ is a parallelogram, find the measure of $\angle PSR$.



PARALLELOGRAMS

Properties of Rectangles

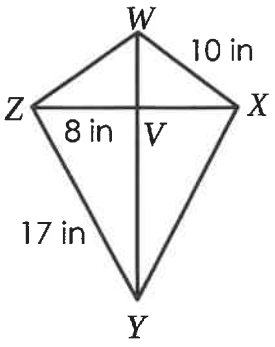


- Opposite sides are _____.
- Opposite sides are _____.
- Opposite angles are _____.
- Consecutive angles are _____.
- Diagonals _____ each other.

Rectangles have the same properties as parallelograms, plus:

- All _____ angles.
- Diagonals are _____.

18 If $WXYZ$ is a kite, find each missing measure.



a) WZ = _____

b) XY = _____

c) VX = _____

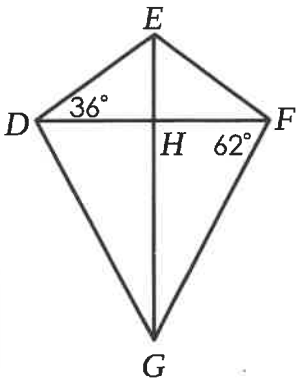
d) ZX = _____

e) WV = _____

f) VY = _____

g) WY = _____

19 If $DEFG$ is a kite, find each missing measure.



a) $m\angle FGH$ = _____

b) $m\angle DEF$ = _____

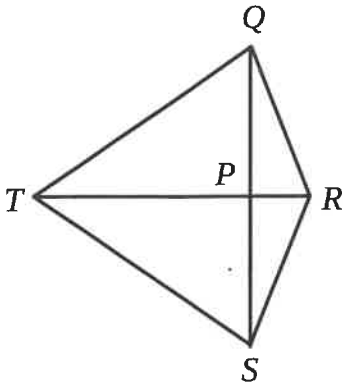
c) $m\angle DHG$ = _____

d) $m\angle DGF$ = _____

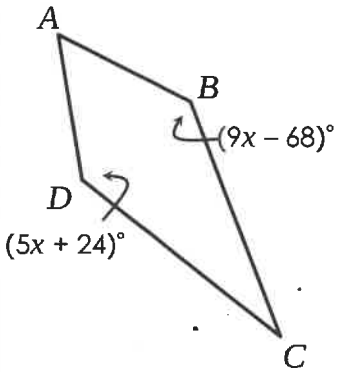
d) $m\angle FEH$ = _____

e) $m\angle EDG$ = _____

20 If $QRST$ is a kite, QS = 38 meters, and PT = 27 meters, find TS.

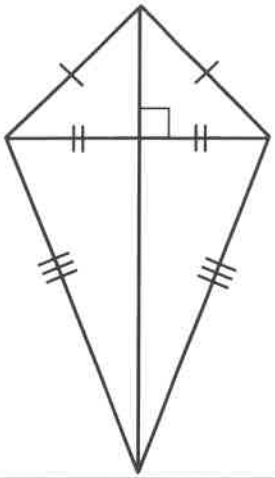


21 If $ABCD$ is a kite find $m\angle B$.



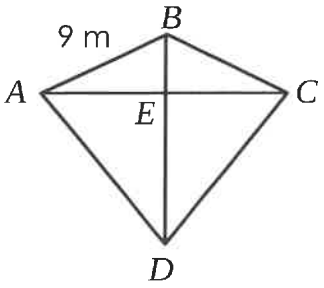
KITES

Properties of Kites

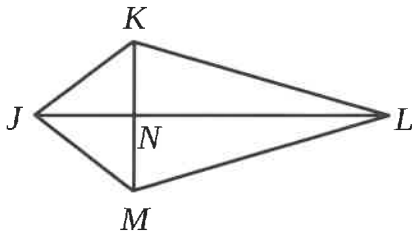


- Two pairs of _____ _____ _____.
- One pair of _____ _____ _____.
- Diagonals are _____.
- A diagonal _____ the _____ formed by congruent sides.
- One diagonal _____ the other diagonal.

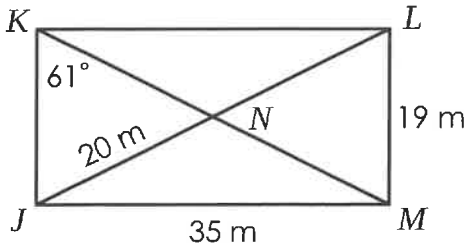
16 If $ABCD$ is a kite, $AC = 17.6$ m, and $ED = 10.5$ m, find the perimeter of $ABCD$.



17 If $JKLM$ is a kite, $m\angle JKL = 124°$, and $m\angle KLM = 34°$, find $m\angle KJL$.



3 If $JKLM$ is a rectangle, find each missing measure.

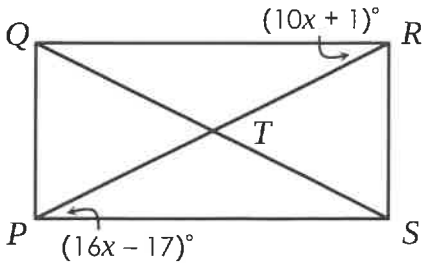


a) $KL =$ _____ **d)** $m\angle KLM =$ _____

b) $NL =$ _____ **e)** $m\angle LMK =$ _____

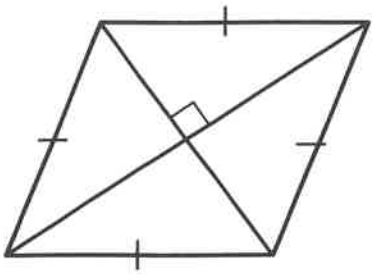
c) $KM =$ _____ **f)** $m\angle LJM =$ _____

4 If $PQRS$ is a rectangle, find the measure of $\angle QPT$.



RECTANGLES

Properties of Rhombi

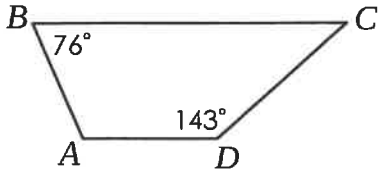


Rhombi have the same properties as parallelograms, plus:

- Opposite sides are _____.
- Opposite sides are _____.
- Opposite angles are _____.
- Consecutive angles are _____.
- Diagonals _____ each other.

- All sides are _____.
- Diagonals are _____.
- Diagonals _____ opposite _____.

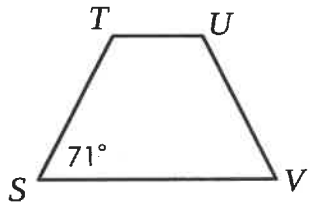
10 If $ABCD$ is a trapezoid, find each missing measure.



a) $m\angle A$ = _____

b) $m\angle C$ = _____

11 If $STUV$ is an isosceles trapezoid, find each missing measure.

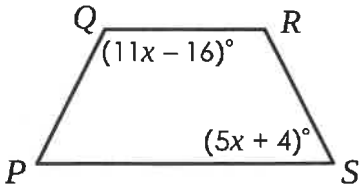


a) $m\angle T$ = _____

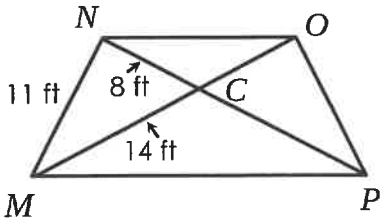
b) $m\angle U$ = _____

c) $m\angle V$ = _____

12 If $PQRS$ is an isosceles trapezoid, find the measure of $\angle P$.



13 If $MNOP$ is an isosceles trapezoid, find each missing measure.

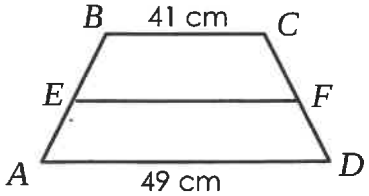


a) OP = _____

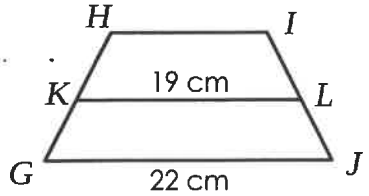
b) CO = _____

c) NP = _____

14 If $ABCD$ is an isosceles trapezoid, find EF.



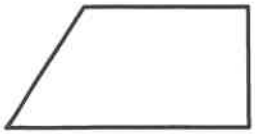
15 If $GHIJ$ is an isosceles trapezoid, find HI.



TRAPEZOIDS

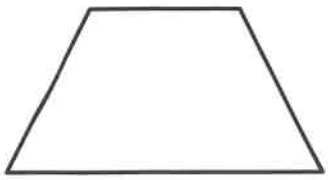
Properties of Trapezoids

Non-Isosceles Trapezoids



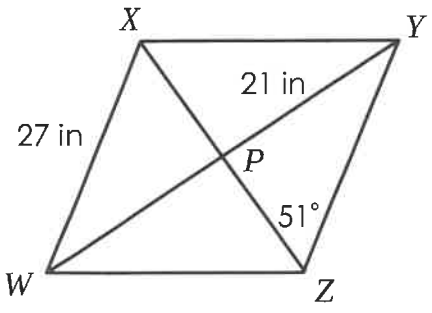
- Only one pair of opposite sides are _____.
- Consecutive (non-base) angles are _____.

Isosceles Trapezoids



- Only one pair of opposite sides are _____.
- Diagonals are _____.
- Non-parallel sides (legs) are _____.
- Opposite angles are _____.
- Base angles are _____.
- Midsegment is the _____ of the two _____.

5 If $WXYZ$ is a rhombus, find each missing measure.

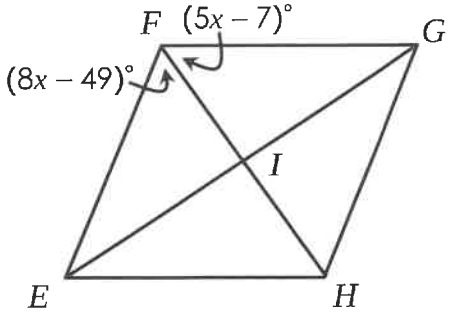


a) XY = _____ **d)** $m\angle XZW$ = _____

b) WP = _____ **e)** $m\angle XWZ$ = _____

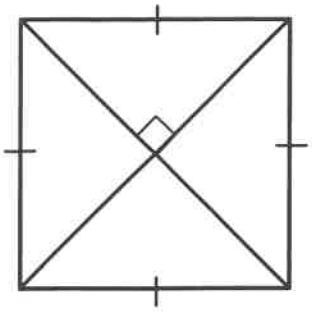
c) PZ = _____ **f)** $m\angle ZYW$ = _____

6 If $EFGH$ is a rhombus, find the measure of $\angle FGE$.



RHOMBI

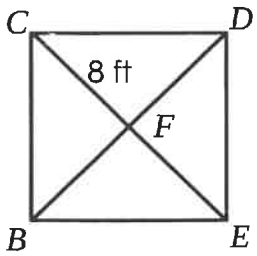
Properties of Squares



Squares have ALL the properties of parallelograms, rectangles, and rhombi.

- Opposite sides are _____.
- Opposite sides are _____.
- Opposite angles are _____.
- Consecutive angles are _____.
- Diagonals _____ each other.
- All _____ angles.
- All sides are _____.
- Diagonals are _____.
- Diagonals are _____.
- Diagonals _____ opposite _____.

7 If $BCDE$ is a square, find each missing measure.



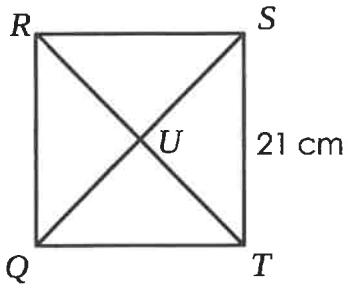
a) CE = _____

b) BC = _____

c) $m\angle CFD$ = _____

d) $m\angle DBE$ = _____

8 If $QRST$ is a square, find QS.



9 If $JKLM$ is a square, $ML = x + 7$, and the perimeter of $JKLM$ is $7x - 5$, find JN.