

Geometry Worksheet

WRITE ON YOUR OWN PAPER!!

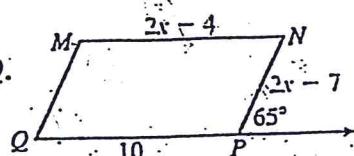
Chapter 5

$MNPQ$ is a parallelogram.

1. Find the measure of $\angle M$; $\angle N$; $\angle NPQ$; $\angle Q$.

2. Find the length of side MN ; NP ; QM .

3. If $\overline{WI} \cong \overline{ER}$, $m\angle W = 2x + 55$, and $m\angle E = 7x - 15$, find x and the measures of $\angle W$ and $\angle E$.



H6, 8-13

+ textbook

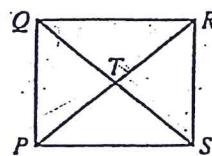
p 269: 1-4, 15a,b

p 265: 13-14

4. If $PQRS$ is a rectangle with $QT = (2x + 4)$ cm and $TS = (3x - 1)$ cm, find PR .

5. If $PQRS$ is a rhombus with $m\angle PQS = (3x + 10)$ and $m\angle SQR = (x + 40)$, find $m\angle QRS$.

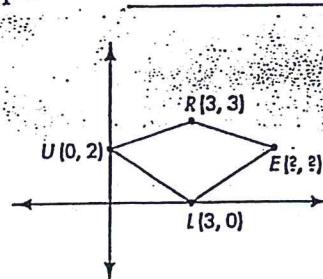
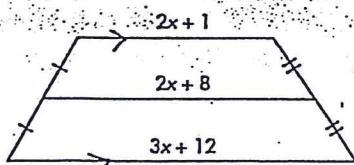
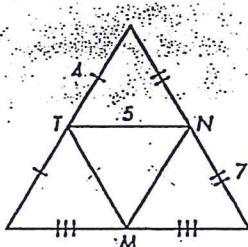
6. $PQRS$ is a square with $ST = (x + 8)$ cm and $PR = (4x + 6)$ cm. Find QT .



7. Perimeter of $\triangle NTM$ =

8. $x = \underline{\hspace{2cm}}$

9. RULE is a kite.
What are the coordinates of point E?

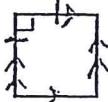


Identify each figure as a parallelogram, rectangle, rhombus, square, or none of these. Use all terms that apply.

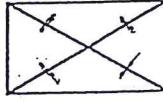
10.



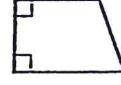
11.



12.



13.



ASSUME
other L's
are not 90°

parallelogram

Use the given information to classify $\square TOME$ as a rectangle, rhombus, square, or none of these. Use all terms that apply.

What could each be?

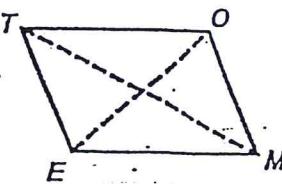
14. $TO \cong ET$ _____

17. $EM \perp OM$ _____

15. $EO \perp TM$ _____

18. $m\angle OME = 90$; $TO \cong TE$ _____

16. $m\angle EOT = m\angle OEM$ _____



19. In $\square QUED$, $m\angle D$ is 30 greater than $m\angle E$. Find the measures of each of the angles.

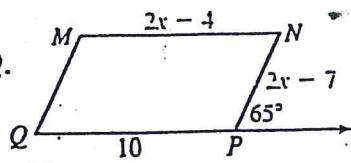
Geometry Worksheet

Chapter 4 Sections 8-11

9

MNPQ is a parallelogram.

- Find the measure of $\angle M$; $\angle N$; $\angle NPQ$; $\angle Q$.
- Find the length of side MN ; NP ; QM .



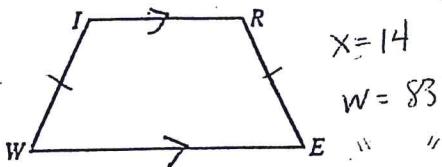
Key

$$\begin{aligned} \angle M &= 115^\circ \quad \angle N = 65^\circ \\ \angle NPQ &= 115^\circ \quad \angle Q = 65^\circ \\ MN &= 10 \quad NP = 7 \quad QM = 7 \end{aligned}$$

- If $\overline{WI} \cong \overline{ER}$, $m\angle W = 2x + 55$, and $m\angle E = 7x - 15$, find x and the measures of $\angle W$ and $\angle E$.

$$\begin{aligned} 2x + 55 &= 7x - 15 \\ 55 &= 5x - 15 \\ 70 &= 5x \\ x &= 14 \end{aligned}$$

$$\begin{aligned} \angle W &= 2 \cdot 14 + 55 = 83^\circ \\ \angle E &= 7 \cdot 14 - 15 = 103^\circ \end{aligned}$$



$$x = 14$$

$$W = 83^\circ$$

- If PQRS is a rectangle with $QT = (2x + 4)$ cm and $TS = (3x - 1)$ cm, find PR .

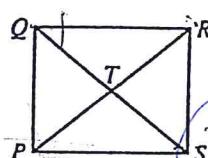
$$(28)$$

- If PQRS is a rhombus with $m\angle PQS = (3x + 10)$ and $m\angle SQR = (x + 40)$, find $m\angle QRS$.

$$(100)$$

- PQRS is a square with $ST = (x + 8)$ cm and $PR = (4x + 6)$ cm. Find QT .

$$\begin{aligned} 2(x+8) &= 4x+6 \\ 2x+16 &= 4x+6 \\ 10 &= 2x \quad x=5 \end{aligned}$$



$$4) 2x+4 = 3x-1$$

$$5 = x \quad 2(2(5)+4) = 28$$

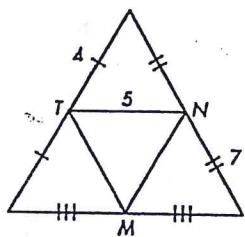
$$3x+10 = x+40$$

$$2x = 30$$

$$x = 15$$

- Perimeter of $\triangle NTM$ =

$$\underline{16}$$



$$8. x = \underline{3}$$

- RULE is a kite.

What are the coordinates of point E? (6, 2)

$$\frac{2x+1+3x+12}{2} = 2x+8$$

$$\frac{2x+5x+13}{2} = (2x+8)^2$$

$$5x+13 = 4x+16$$

$$x = 3$$

$$2x+8 = 2(3)+8 = 14$$

$$3x+12 = 3(3)+12 = 21$$

$$b = 21$$

$$2x+1 = 2(3)+1 = 7$$

$$x = 3$$

$$5x+13 = 5(3)+13 = 28$$

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