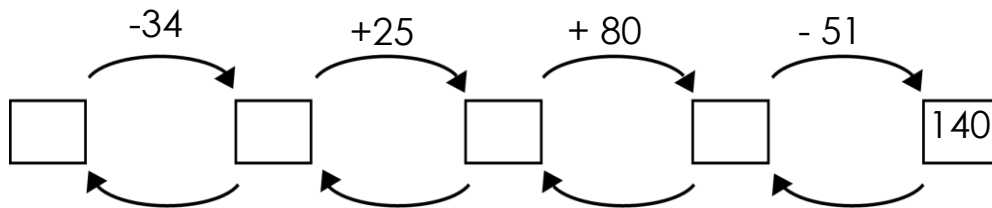


Parenthesis. Venn diagram

- 1 "I think of a number" game with Little Joe. LJ thought of a number. He subtracted 34, added 25, added 80, subtracted 51, and got 34. What was the number LJ think of?



- 2 **In your notebook**, solve the equations and write you solutions similarly to the example. Copy your answers here. Make drawings if needed.

$$345 - x = 261$$

$$x =$$

$$118 + y = 239$$

$$y =$$

$$z - 433 = 241$$

$$z =$$

- 3 Convert:

$$2 \text{ m } 5 \text{ dm } 1 \text{ cm} = \underline{\quad} \text{ cm}$$

$$2 \text{ dm } 4 \text{ cm} = \underline{\quad} \text{ cm}$$

$$34 \text{ dm} = \underline{\quad} \text{ m } \underline{\quad} \text{ dm}$$

$$34 \text{ dm} = \underline{\quad} \text{ m } \underline{\quad} \text{ cm}$$

$$282 \text{ cm} = \underline{\quad} \text{ m } \underline{\quad} \text{ dm } \underline{\quad} \text{ cm}$$

$$282 \text{ cm} = \underline{\quad} \text{ m } \underline{\quad} \text{ cm}$$

- 4 How many operations are in each of the expressions below? Mark the order of operations. Do we have here the expressions where the order of operation does not matter? Why?

$$123 - 16 + 32$$

$$34 - 15$$

$$45 + 16 + 27 + 10$$

$$567 - 345 + 118$$

$$33 + 59 - 21 + 17$$

$$252 - 149 + 71 - 124$$

$$a + b - c$$

$$m + n + k$$

$$a - c + d - m$$

Parentheses

In expression $8 - 4 + 1$ operations are performed in the natural order: subtraction is performed before addition. In order to change the natural order, **parentheses** are used.

$$\begin{array}{cc} \textcircled{1} & \textcircled{2} \\ 8 - 4 + 1 = 5 \end{array}$$

$$\begin{array}{cc} \textcircled{2} & \textcircled{1} \\ 8 - (4 + 1) = 3 \end{array}$$



5 Determine the order of operations in the expressions:

a) $a - (b + c)$

b) $(a + b) - c$

c) $a - (b - c) - d$

d) $26 + (32 - 16)$

e) $93 + (12 + 16) - 35$

f) $a + (b - c + d)$

6 Mark the order of operations and find the result:

$18 + 12 - 8 - 6 =$ _____

$32 - 10 + 6 - 3 =$ _____

$18 + 12 - (8 - 6) =$ _____

$32 - (10 + 6) - 3 =$ _____

$18 + (12 - 8) - 6 =$ _____

$32 - 10 + (6 - 3) =$ _____

7 Compare:

$x \dots\dots x + 3$

$x + 3 \dots\dots x + (3 + b)$

$x + 3 \dots\dots x + (3 - b)$

$x - 3 \dots\dots x - 3 + 1$

$x - 3 \dots\dots x - (3 + 1)$

$x - 3 \dots\dots x - (3 - 1)$

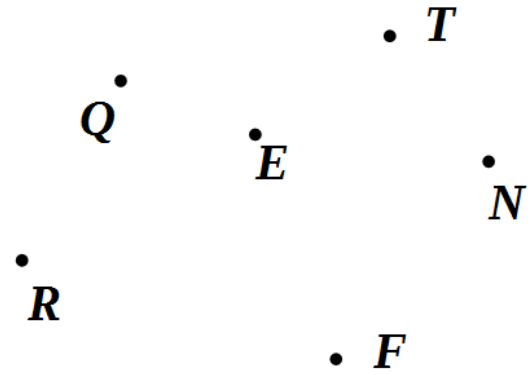
8

Find the intersection of straight lines **RT**, and **FQ**. Label it **G**.

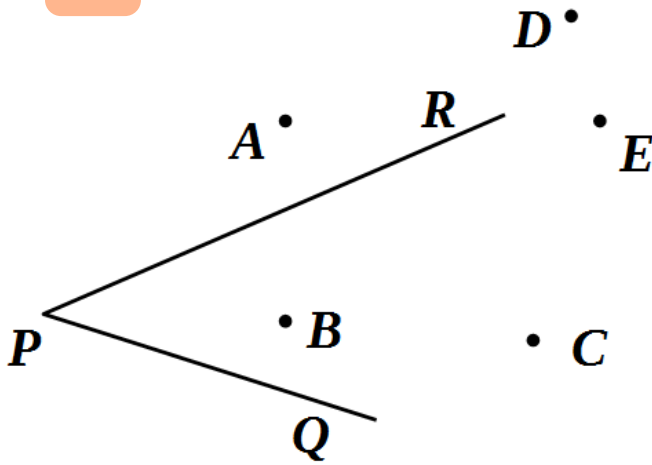
Plot straight line **GN**.

Find the intersection of straight lines **QT**, and **RF**.

Label it **P**.



9



Which of the points **A**, **B**, **C**, **D**, and **E** are located inside angle $\angle RPQ$?

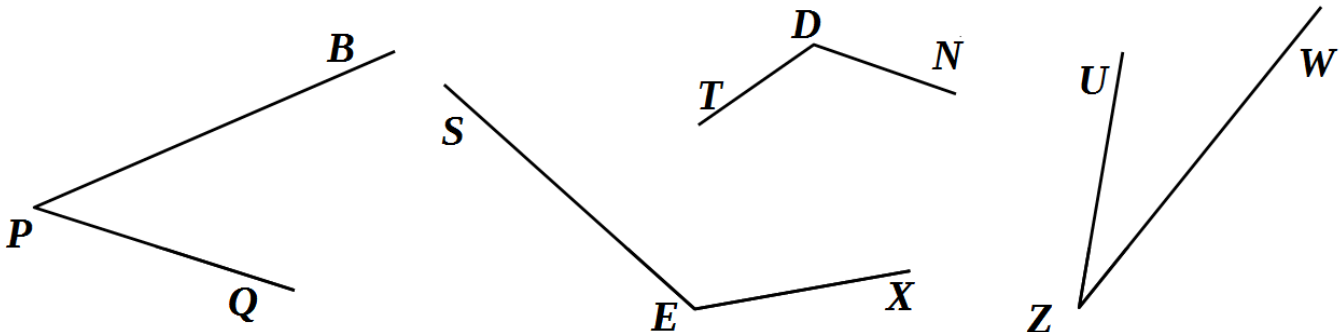
Which of the points **A**, **B**, **C**, **D**, and **E** are located outside angle $\angle RPQ$?

Does line segment **[CD]** intersect ray **[PR]**?

10 Use a right-angle template to identify

1) angles that are bigger than the right angle _____

2) angles that are smaller than the right angle _____

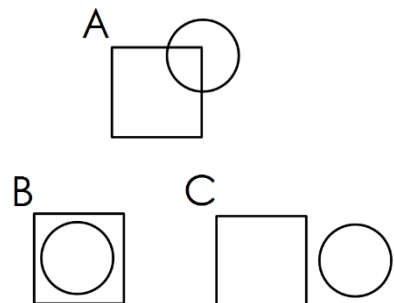


Venn diagram

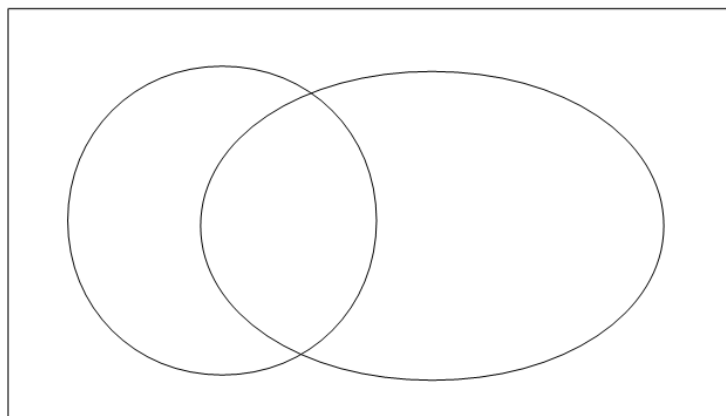
A Venn diagram is an illustration of the relationships between the groups of objects that have something in common.

Which picture (A, B, or C) represents:

- Set of apples and set of oranges: _____
- Set of apples and set of yellow apples: _____
- Set of yellow fruits and set of apples: _____



11 Write the plate numbers into the **Venn diagram**. How many plates are in each set? Write the answers in the table.



Sets	
	- Plates on the picture 8
	- Plates with apples
	- Plates with pears
	- Plates with both apples and pears
	- Plates with fruits (either apples or pears)
	- Plates without fruits

