

1

Compare without calculating:

$57 + 29 \square 57 + 30 \quad 57 - 29 \square 57 - 30 \quad 58 + 30 \square 59 + 29$

$65 + 18 \square 65 + 20 \quad 65 + 18 \square 63 + 18 \quad 65 + 18 \square 64 + 19$

$47 + 18 \square 50 + 15 \quad 47 - 16 \square 47 - 19 \quad 80 - 19 \square 81 - 20$

2

Calculate using commutative property of addition:

Example: $6 + 15 + 4 = (6 + 4) + 15 = 25$

$17 + 7 + 13 + 3 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$2 + 21 + 19 + 8 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

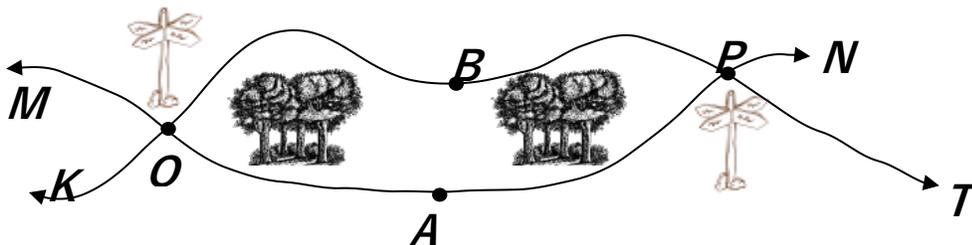
$1 + 35 + 19 + 5 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$17 + 41 + 3 + 19 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$28 + 13 + 12 + 7 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

3

The routes **KBT** and **MAN** pass through forest.



- Name the points in which those two routes intersect _____
- Which intersection point should you pass to get from point **K** to point **M**? _____
- How many possible routes can you take to get from point **K** to point **N**? _____

4

Solve the problems:

- If a winter day has 10 hours of daylight, then how many hours of darkness in the day? (Hint: the whole day has 24 hours).

- Last year Sasha was 7 years old. How old he will be in 2 years from now?

5

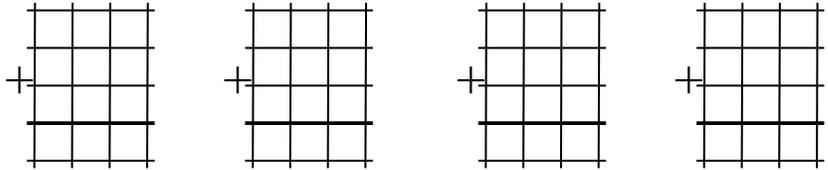
Write the numbers in columns and calculate their sums.

$213 + 48 + 456$

$276 + 509 + 84$

$525 + 370 + 9$

$35 + 460 + 1$



6

Compare using $>$, $<$, or $=$.

$456 - c \underline{\hspace{1cm}} 365 - c$

$207 + d \underline{\hspace{1cm}} 720 + d$

$a + 25 \underline{\hspace{1cm}} a + 125$

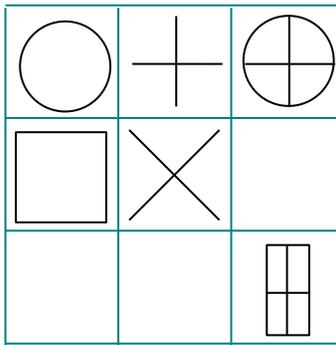
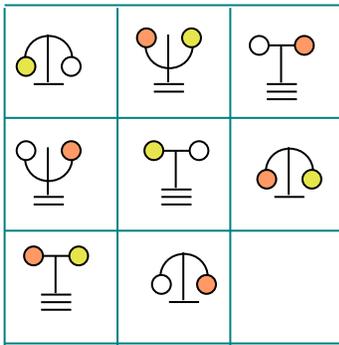
$x - 111 \underline{\hspace{1cm}} x - 9$

$340 - 0 \underline{\hspace{1cm}} 340 + 0$

$b - 602 \underline{\hspace{1cm}} b - 62$

7

Study the pictures below and try to recognize the patterns. Then, draw the missing shapes in the empty boxes.



8

Number the order of operations:

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

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

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

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

9

Write down the numerical expressions, use parentheses to help yourself with a number of operations. Calculate the value of each expression.

To the sum of 45 and 36, add 5: _____

To the number 91, add the sum of 9 and 27: _____

From the sum of 78 and 46, subtract 28: _____

10

Solve for x. Check your answers.

$315 - x = 62$

$x + 407 = 530$

$x - 18 = 69 + 25$

11

Find the perimeter:

a) One side of a triangle is 3 m 4 dm 8 cm, the second side is 29 dm, and the third side is 4 m 2 cm.

What is the perimeter of the triangle in centimeters?

P = _____

b) A rectangle is 1 m 25 cm long and 3 dm 5 cm wide. What is the perimeter of the rectangle in centimeters?

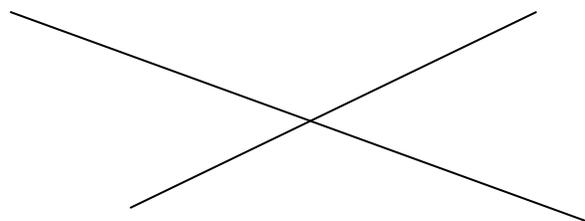
P = _____

12

Ann drew two intersecting straight lines. She marked 3 points on one of the lines and 5 points on the other one.

Totally she marked 7 points.

How is this possible? Show on the picture.

**Removing parentheses.**

$$a + (b + c) = a + b + c$$

$$a + (b - c) = a + b - c$$

$$a - (b + c) = a - b - c$$

$$a - (b - c) = a - b + c$$

13

Find the value of the expressions by the most optimal way (open or don't open the parentheses):

a) $(48 + 12) - (34 + 26) =$ _____

b) $(66 + 36) + (44 - 26) =$ _____

c) $19 + 17 + (53 - 17) =$ _____

d) $39 + (58 - 29) + 32 =$ _____

14

Open parentheses (if it'll make your calculations easier) and calculate the value of each expression:

a) $295 + (32 - 95) =$ _____

b) $(123 - 75) - (23 + 25) =$ _____

c) $125 - (125 + 93) - 23 =$ _____

d) $(999 + 532) - 32 - (499 + 498) =$ _____