

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

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

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

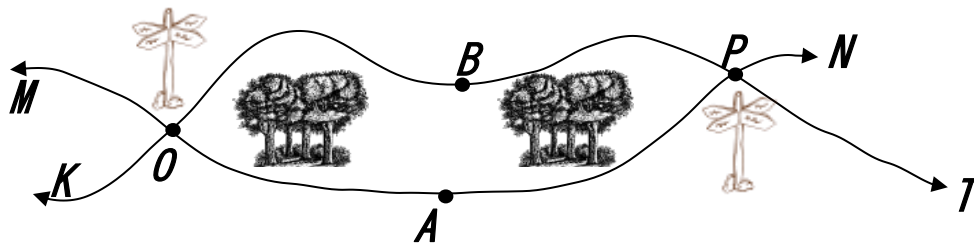
$$1 + 35 + 19 + 5 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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

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

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 are in the day? (Hint: the whole day has 24 hours).

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

5

Compare numbers using $>$, $<$, or $=$. Each letter stands for a single digit. Same letter stands for the same digit.

$$SP \square M$$

$$Q0 \square Q1$$

$$3L \square 5L$$

6

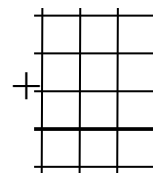
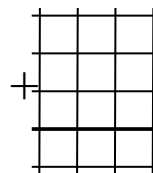
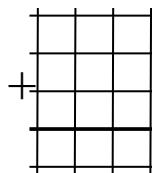
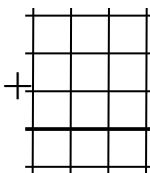
Write the numbers in columns and calculate their sums.

$$213 + 48 + 456$$

$$276 + 509 + 84$$

$$525 + 370 + 9$$

$$35 + 460 + 1$$



7.

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

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

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

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

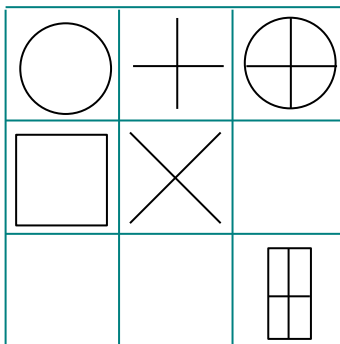
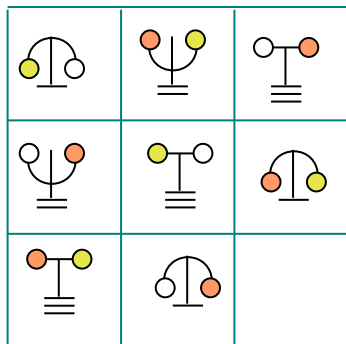
$$x - 111 \underline{\hspace{1cm}} x - 9$$

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

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

8.

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



9.

Number the order of operations:

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

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

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

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

10

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: _____

11

Solve for x . Check your answers.

$315 - x = 62$

$x + 407 = 530$

$x - 18 = 69 + 25$

12

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?

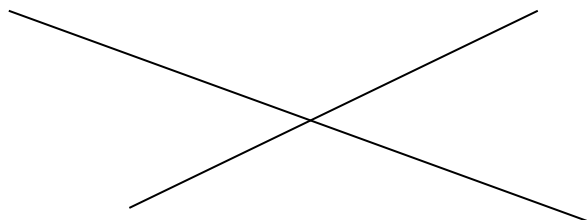
P = _____

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 = _____

13

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.



14

Number the order of operations and calculate the value of the expressions (show your work by writing the steps):

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

b) $(66 + 34) + (44 - 24) =$ _____

c) $19 + 17 - (53 - 23) =$ _____

d) $39 + (58 - 29) + 31 =$ _____

15

Number the order of operations

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

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

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

16

Review how to open the parenthesis (remove them safely!):

Removing parentheses.

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

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

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

Now use the rule above and remove the parentheses from the following expressions and then calculate:

a) $25 + (10 + 5) = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

b) $15 - (10 - 5) = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

c) $15 - (10 - 5) = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

17

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

Be careful when you remove the parentheses: the sign before the parentheses effect each number in the parentheses:

a) $95 + (32 - 95) = \underline{\hspace{2cm}}$

b) $(123 - 15) - (23 + 15) = \underline{\hspace{2cm}}$

c) $125 - (125 + 93) - 23 = \underline{\hspace{2cm}}$

d) $(999 + 532) - 32 - (499 + 498) = \underline{\hspace{2cm}}$