Homework for Lesson № 5

1 Express in centimeters:

4 m 2 dm 8 cm =   cm   1 m 7 dm 4 cm =   cm

5 m 3 dm 1 cm =   cm   6 m 9 dm 3 cm =   cm

2 Express in meters, decimeters, and centimeters:

828 cm = ☐ m ☐ dm ☐ cm   935 cm = ☐ m ☐ dm ☐ cm

316 cm = ☐ m ☐ dm ☐ cm   682 cm = ☐ m ☐ dm ☐ cm

3 Express the numbers in tens and units and the distances in decimeters and centimeters.

405 = ☐ t ☐ u   807 = ☐ t ☐ u

405 cm = ☐ dm ☐ cm   807 cm = ☐ dm ☐ cm

4 Measure the edges of the quadrilateral with a ruler and find its perimeter.

$|AB|$ = ☐ cm $|BC|$ = ☐ cm

$|CD|$ = ☐ cm $|AD|$ = ☐ cm

☐ cm + ☐ cm + ☐ cm + ☐ cm = ☐ cm
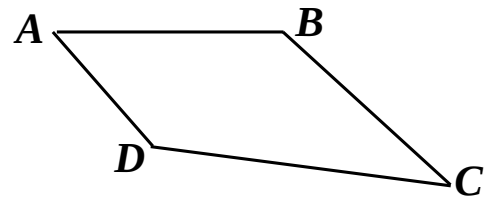
5 Make and solve your own problem using the auxiliary drawing.

$79

$36   ? =

?

_____

_____

_____

_____

_____

7
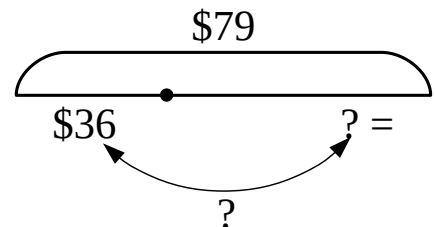
$15 \rightarrow 3 \rightarrow 11 \rightarrow 37 \rightarrow 24 \rightarrow 43 \rightarrow 17$

Help the bear to pick mushrooms according to the instructions:

25-10

19+18

30-6

27+16

56-45

25-8

31-28

31-12
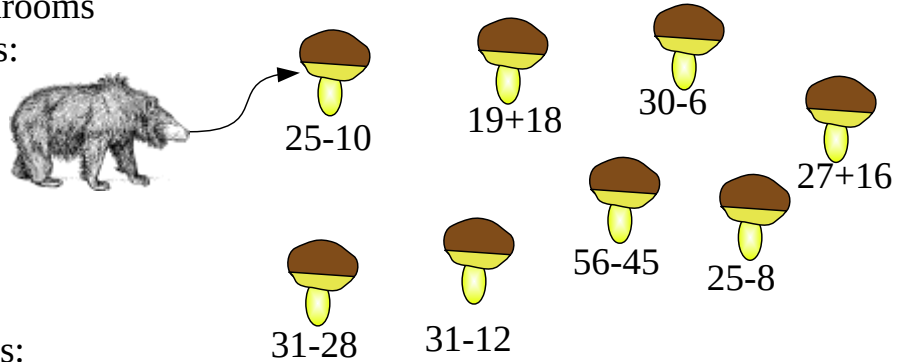
Check the correct statements:

_____ The bear has picked all mushrooms

_____ Some mushrooms were left by the bear

_____ There was only one mushroom left by the bear

_____ The bear has picked 6 mushrooms

8 Color all shapes with red and blue pencils so that some circles would be red and only one square would be blue.
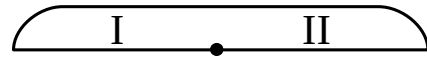
9 Solve the equations:

$345 - x = 261$ $118 + x = 239$ $674 - x = 241$

_____   _____   _____

_____   _____   _____

_____   _____   _____

10 Write the expressions to answer the word problems:

A. In the first quarter a dealer sold **m** cars. In the second quarter he sold **n** cars. How many cars did he sell in half a year?

| I | • | II |

_____

B. In the first quarter a dealer sold **m** cars. In the second quarter he sold **n** cars. How many more cars than in the first quarter did he sell in the second quarter?
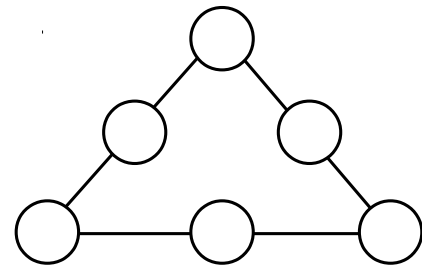
| I | • | II |

_____

C. A dealer sold **m** cars in first half of the year.. In the first quarter he sold **n** cars. How many cars did he sell in the second quarter?
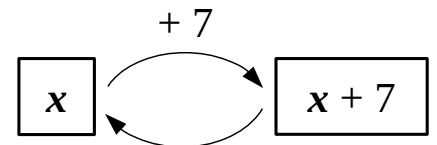
| I | • | II |

_____

11 Write the numbers 1, 2, 3, 4, 5, 6 into the circles so that the sum on the numbers along each side of the triangle would be the same.
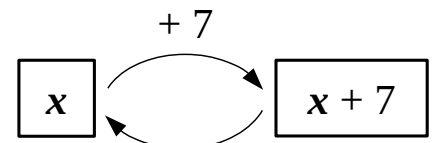
12 Analyze operations and their results:
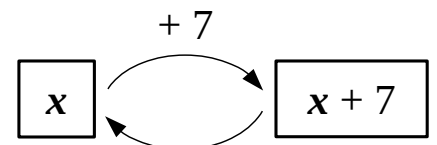
A. The back operation for adding 7 is _____

$+7$

x → $x + 7$

Therefore: $x + 7 - 7 =$ _____

B. The back operation for adding **w** is _____

$+7$

x → $x + 7$

Therefore: $x + w - w =$ _____

C. The back operation for subtracting **w** is _____

$+7$

x → $x + 7$

Therefore: $x - w + w =$ _____

13 Compare:

a ☐ $a + c$ $a + b$ ☐ $b + a$ $38 - b$ ☐ $68 - b$

b ☐ $b - 5$ $k + 26$ ☐ $62 + k$ $a - 0$ ☐ $a + 0$

4 ☐ $d - d$ $54 + n$ ☐ $54 - n$ $c - 19$ ☐ $c - 90$

14 Mark the order of operations in the expressions:

$9 + a - 4 + 7$ $9 + (a - 4) + 7$ $9 + a - (4 + 7)$

$w - 10 - b + 11$ $w - (10 - b) + 11$ $(w - 10) - (b + 11)$

15 Mark the order of operations in the expressions and evaluate them:

$18 + 4 - 8 - 6 =$ _____ $32 - 10 + 6 - 3 =$ _____

$18 + 4 - (8 - 6) =$ _____ $32 - (10 + 6) - 3 =$ _____

$(18 + 4) - 8 - 6 =$ _____ $32 - (10 + 6 - 3) =$ _____

16 Compare:

x ☐ $x + 3$ $x + 3$ ☐ $x + (3 + b)$ $x + 3$ ☐ $x + (3 - b)$

$x - 3$ ☐ $x - 3 + 1$ $x - 3$ ☐ $x - (3 + 1)$ $x - 3$ ☐ $x - (3 - 1)$

17 Continue the number patterns:

3,   6,   9,   12, _____ , _____ , _____

66,   60,   54,   _____ ,   _____ ,   _____

18 A little dragon had a week long vocation when he was playing badminton and soccer with other dragons, and biking and fishing by himself. Each day on the calendar is marked with his activity.

Look at the calendar and fill in the table with YES and NO.

Day	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Badminton AND fishing							
Badminton OR fishing							
Played with others							
Was by himself							

Monday	Tuesday	Wednesday	Thursday
Friday	Saturday	Sunday	
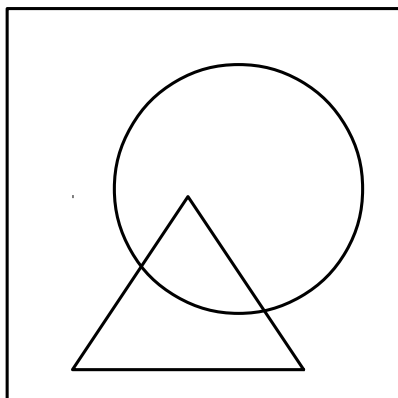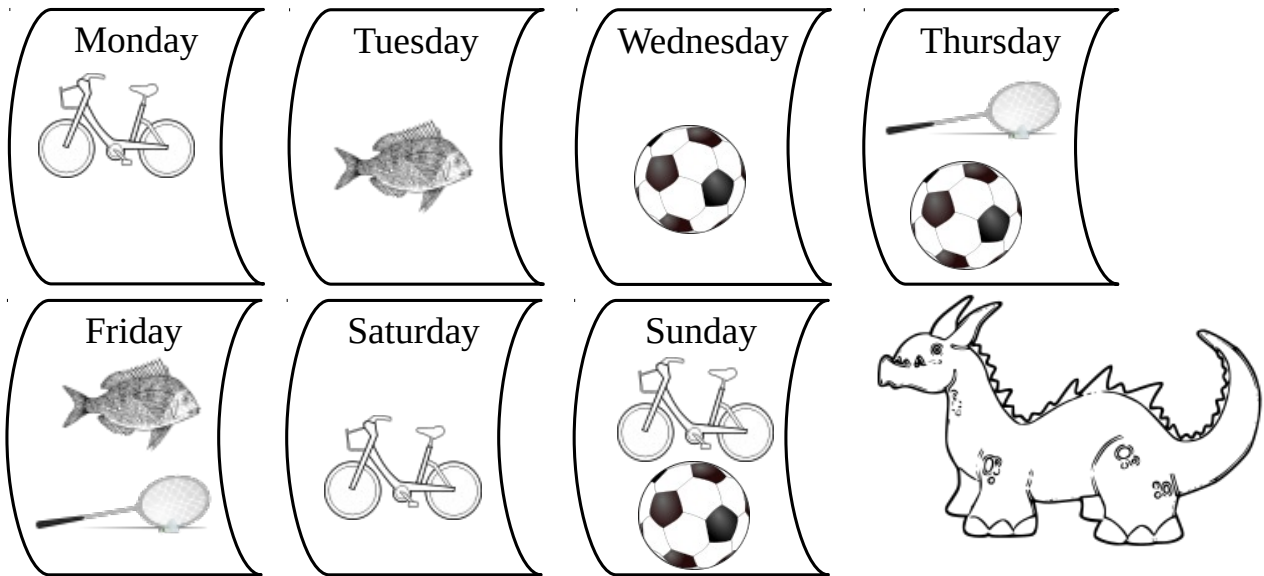
Place the weekdays on the drawing	
□	Days
○	Badminton
△	Fishing

19 Express the numbers in hundreds and tens, and express the distances in meters and decimeters.

$550 = \square$ h $\square$ t $470 = \square$ h $\square$ t

550 cm $= \square$ m $\square$ dm 470 cm $= \square$ m $\square$ dm

20 Calculate:

4 m 2 dm 6 cm + 1 m 5 dm 2 cm = ___ m ___ dm ___ cm

9 m 8 dm 3 cm – 6 m 2 dm 1 cm = ___ m ___ dm ___ cm

21 Foxy Tail, Jake the Mouse, and Pop Eye medaled in a race. Which medal did each of them earn if Foxy Tail was not the first, and Pop Eye was neither first nor second?
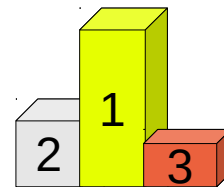
22 Who likes fish?

566	427	636	452	109

```
  • 9 10          • 9 10
  5 0 0          2 0 0          6 0 0          5 0 0          7 0 0
-   7 3        -   9 1        -   3 4        -   4 8        -   6 4
```

(E)   (N)   (H)   (O)   (R)

23 Solve the equations and copy your answers here:

$x + 147 = 300$ $500 - x = 241$ $x + 238 = 400$

$x =$ _____ $x =$ _____ $x =$ _____

$700 - x = 629$ $x - 136 = 164$ $800 - x = 511$

$x =$ _____ $x =$ _____ $x =$ _____

24 Compare numbers:

315 ☐ 97   437 ☐ 902   278 ☐ 872   128 ☐ 180

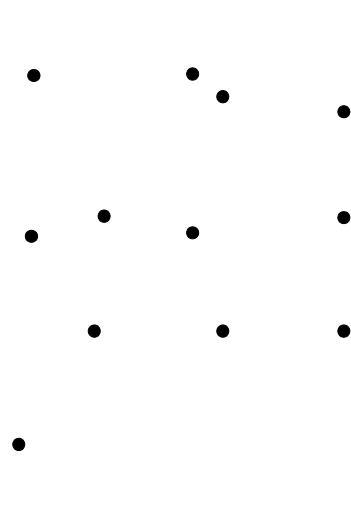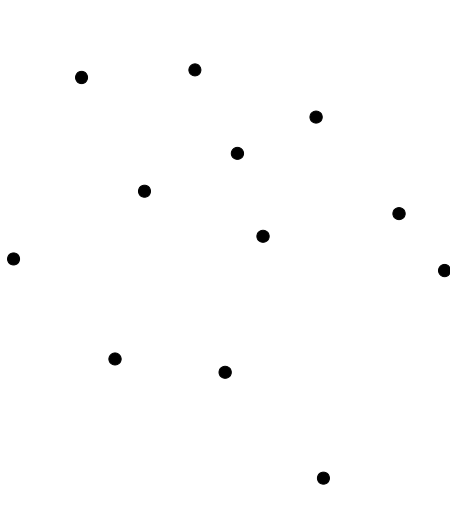8 ☐ 111   529 ☐ 521   603 ☐ 630   700 ☐ 599

25* Find which points you need to connect to obtain 2 squares on each drawing.

26 For each expression mark the order of operations and write a program to evaluate it. For each step write the remaining expression by replacing the operation with its result.

$9 - x + 1$ $9 - (x + 1)$

1. _____   _____   1. _____   _____

2. _____   _____   2. _____   _____

$x - (3 - a) + 4$ $(x - 3) - (a + 4)$

1. _____   _____   1. _____   _____

2. _____   _____   2. _____   _____

3. _____   _____   3. _____   _____

27 Odder the steps to come up with an algorithm to cook instant noodles in a microwave oven:

1. Open the lid half way

___ Cook for 5 minutes in a microwave

___ Add water to fill line

___ Mix in the sauce

___ Remove lid

___ Remove the sauce packet

Can any steps of this algorithm be swapped? _____

28 Compare using ranking lines:

A. A snake is faster than a deer. The deer is faster than an elephant. Who is the fastest?

_____

slow   fast

B. A rock is bigger than a car a car is bigger than a bicycle. Which object is the biggest?

_____

small   big

C. Foxy Tail is older than Little Joe. Little Joe is younger than Jake the Mouse. Jake the Mouse is younger than Foxy Tail. Pop Eye is the oldest. Which brother is the youngest?

_____

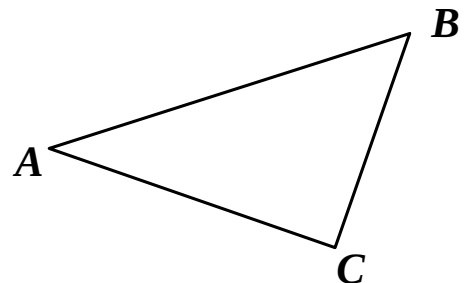young   old
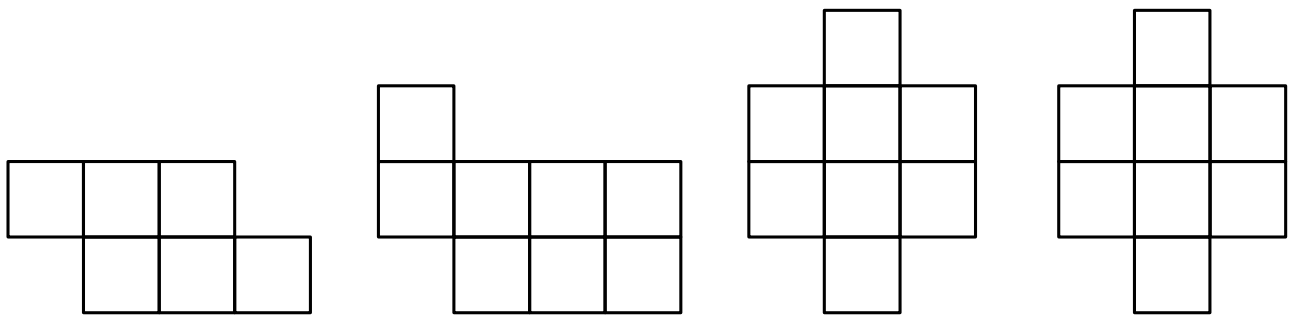
29 Measure the sides of the triangle and find its perimeter:
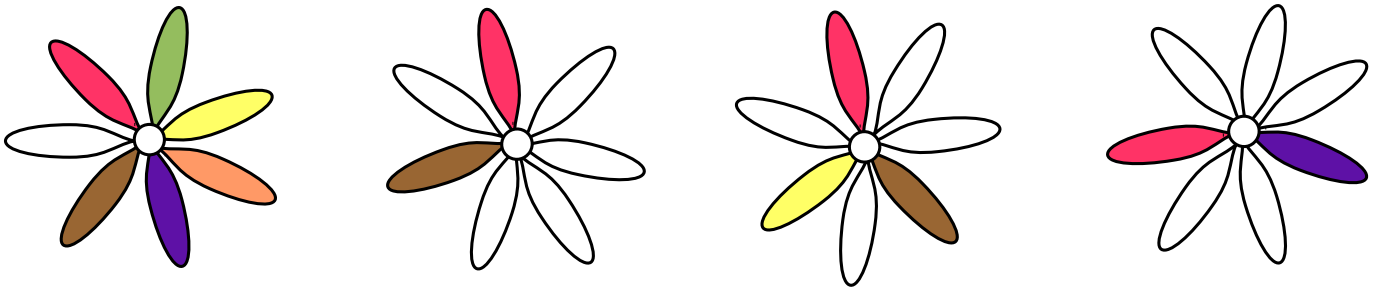
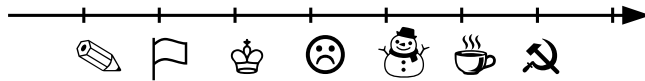$|AB|$ = _____ cm

$|BC|$ = _____ cm

$|AC|$ = _____ cm

P = _____

30 Split each shape in two identical parts and color these parts red and green:

Two ways

31 Restore the colors of the petals to see which flower is different from the rest. Circle it.

32 Write numbers 1, 2, and 3 into the squares appropriately:

♔ + □ = ☹   ☕ − □ = ♔   ⚑ − □ = ✎

☃ − ⚑ = □   ♔ + □ = ☕   ☭ − ☕ = □

33 Use the same wild axis marked in kilograms to weigh the ostrich and the snake:

_____ kg

_____ kg