school nova™

1.

```
  1
  5 6          7 5          3 7         1 4 5        3 6 4        3 6 8        1 4 8
+     7      +     9      + 3 5       +     1 8    +     1 7    + 1 5 4      + 6 7 8
```

```
  7 4          5 2          3 3         1 4 5        3 6 7        2 2 3        4 7 2
-     9      -     8      - 1 7       -     2 9    -     4 7    -     1 5    - 2 1 7
```

2.

Write an expression for each problem.

A factory packs **a** boxes of snacks on Monday and **n** boxes on Tuesday. How many boxes will it pack during Monday and Tuesday?

_____

A factory packs **a** boxes of snacks on Monday and **n** boxes on Tuesday. How many more boxes the factory packs on Monday than on Tuesday?

_____

A factory packs **m** boxes on Wednesday. How many more boxes it has to puck on Thursday to complete an order of **g** boxes?

_____

3.

Calculate:

$18 - (19 - 10) - 8 =$ _____ $(15 + 35) - (84 - 64) =$ _____

$60 - (98 - 78) + 40 =$ _____ $(20 - 10) + (76 + 14) =$ _____

4. Open up the parentheses:

$(s + 3) + 4 =$ _____ $(f + 4) - (a - 64) =$ _____

$(n + b - d) - 94 =$ _____ $(20 - t) + (w + v) =$ _____

$(d + 8) - (7 - a) =$ _____ $(20 + z) - (7 - a + b) =$ _____

5.

Convert the following measurements.

2 m 4dm 3 cm = _____ cm   300 dm = _____ m   5m 9 cm = _____ cm

901 cm = _____ m _____ cm   40 m = _____ dm   56 cm = ____ dm ____ cm

314 cm = _____ dm _____ cm   50 dm = _____ m   6 m 8 dm = _____ cm

6. Find all lines of symmetry:
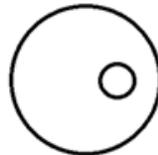
7. Finish the drawing using the line of symmetry:
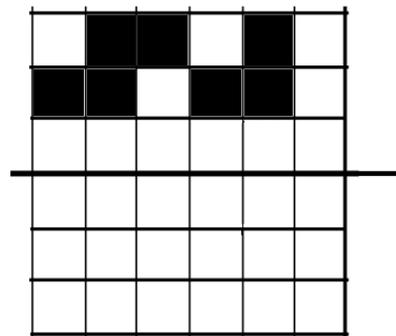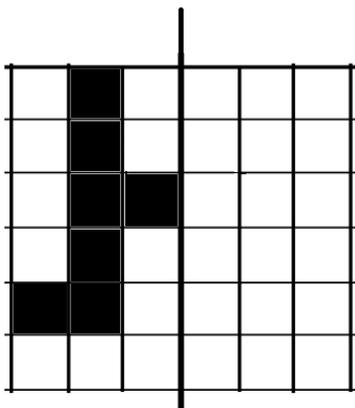
8. Solve the equations:

$768 - y = 42$ $x - 767 = 18$ $z - 126 = 95$

$y =$ $x =$ $z =$

$y =$ $x =$ $z =$

Check: Check: Check:

9.

Use a ruler.

- Plot straight line (**NQ**).
- Plot ray [**RT**).
- Label the intersection **M**.
- Plot segment [**MF**].

• *T*

• *Q*

• *N*

• *R*

• *F*
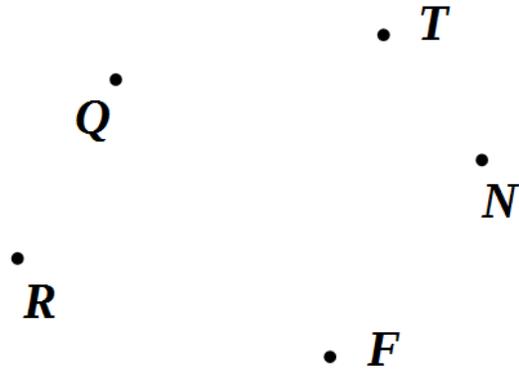
10.

Find perimeter (the total length of the sides) of the rectangle ABCD.
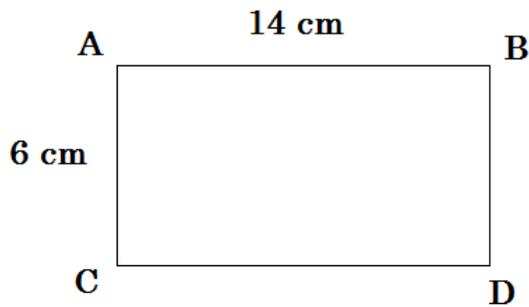
11.

Find area or side of the rectangle.

$a = 8m$

$S =$ $b = 6\,m$

$a = 8m$

$S = 24\,dm^2$ $b = ?$
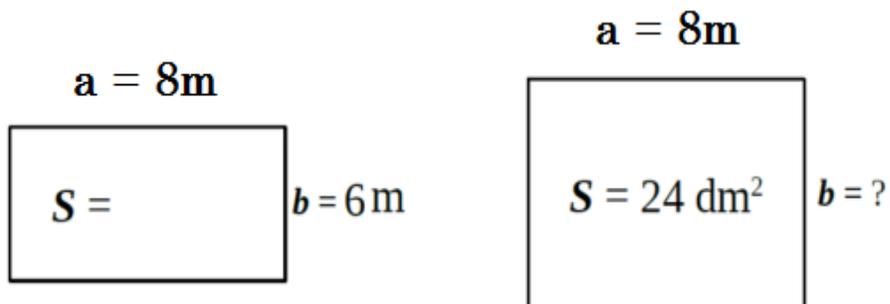
12.

What will you see if you look at the figure from the left and the front? Complete the drawings.

1.

left side	front

top ↓

left side →

top

front

top	

2.

left side	front

top ↓

left side →

top

front

top	
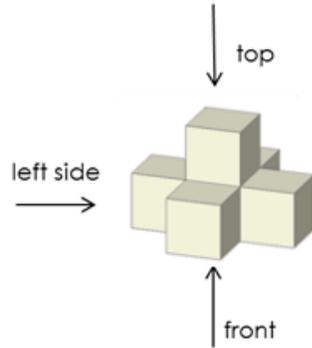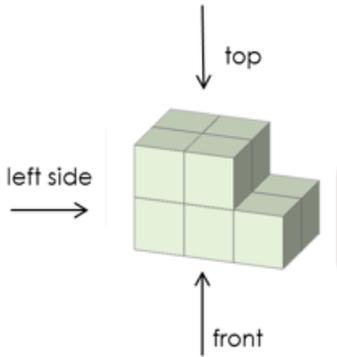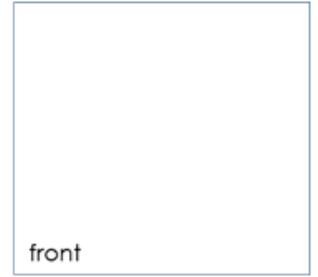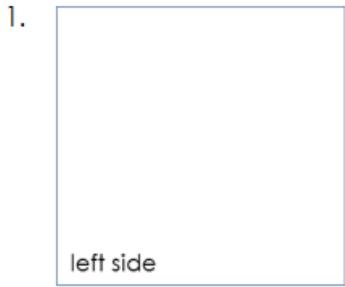
13.

Find coordinates of the points **C** and **D** as well as the coordinates of the other objects.

C (,)

D (,)

(,)

(,)

(,)

(,)

(,)

D(,)

C(,)

4