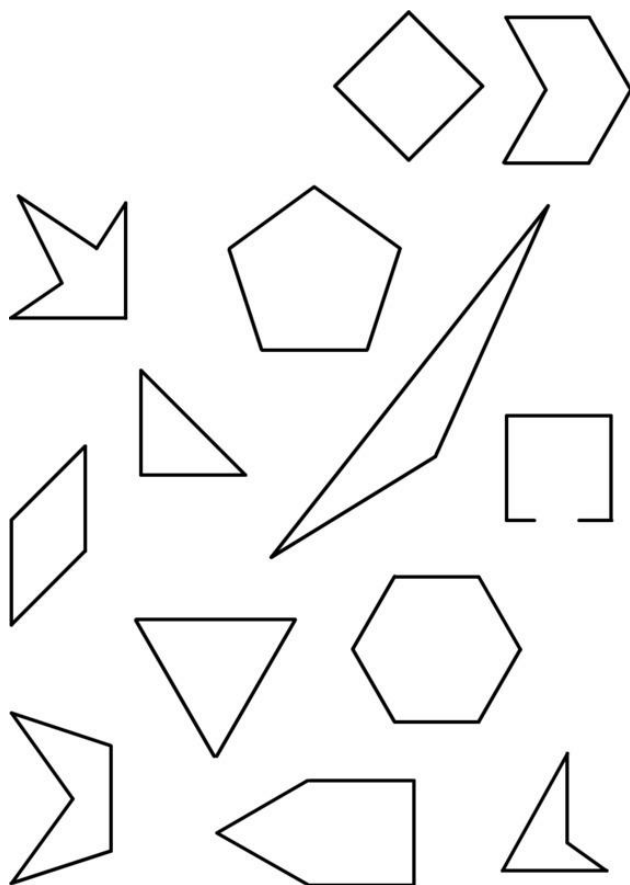


1.

- Color the inside of all the triangles blue.
- Color the inside of all the quadrilaterals red.
- Color the inside of all the pentagons orange.
- Color the inside of all the hexagons green.
- Circle all the shapes that have sides that are equal.



2.

Draw a shape with 3 line segments that is not a triangle.

3.

a) Draw a right isosceles triangle $\triangle ABC$

b) Draw a obtuse isosceles triangle $\triangle PQR$

4.

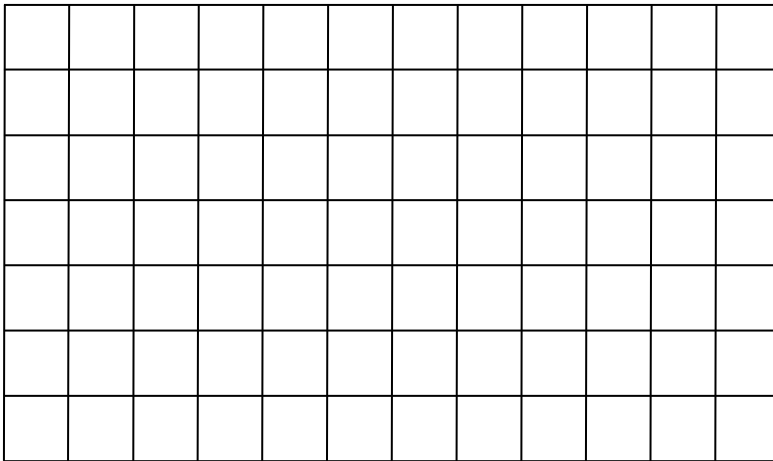
a) Draw at least two examples of each of the quadrilaterals defined below.

- **Parallelogram:** A quadrilateral with 2 pairs of parallel sides.
- **Rectangle:** A parallelogram with 4 right angles.
- **Rhombus:** A parallelogram with 4 sides with equal length.

Homework 7

b) I am a shape that is a parallelogram, a rectangle, and at the same time a rhombus. What shape am I? Draw a diagram of what I look like. Use the vocabulary words and their definitions given in part (a) to explain what shape I am.

- 5.** Draw a square on the square ruled piece of paper below, such as that if the square is divided into two quadrilaterals, the perimeter of one of them will be 8 cm and the perimeter of another one will be 12 cm (consider that the length of 2 cells equals 1 cm). Find the perimeter of the square.



- 6.** Solve for x and check your answers:

$$x + 23 = 100 - 62$$

$$85 - x = 42 + 45$$

Homework 7

7. The table below consists of 8 columns and 6 rows. Is it possible to place check mark symbols in such a way:

- to get 4 check marks in each row and 3 check marks in each column?
- to get 3 check marks in each row and 2 check marks in each column?

8. Decrypt the sentence: $AA + AA = BBC$. The same letters mean identical digits; the different letters mean different numbers.

9. The principal of a school with 484 students collected information about how many students wear glasses.

	<i>Always wear glasses</i>	<i>Sometimes wear glasses</i>	<i>Never wear glasses</i>
Boys	40		161
Girls	36	55	144

- Find the number of boys who *sometimes* wear glasses _____
- How many of the pupils wear glasses some of the time? _____
- How many of the pupils *never* wear glasses? _____
- Are there more boys or girls in the school? _____