Expressions

- 1. Evaluate these expressions if a = 4, b = 2, and c = 5.
- **a.** 10(c + b)
- **b.** $\frac{a+3c}{b}$
- **c.** $a^2 2b$
- **d.** 5a² + 2bc

| Variable | Value of expression |
|----------|---------------------|
| | |
| | |
| | |
| | |
| | |

- 2. Find the value of the expression $\frac{8 \text{ y}}{3}$ when the variable gets the values y = 2, 4, 6, 8, and 10. Record your results in a table that lists both the values of the variable and of the expression.
- 3. Write an expression for the $\underline{\text{areas}}$ of these rectangles and squares.



a b 6 x

and y



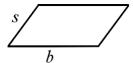
a.

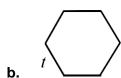
b.

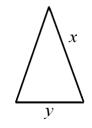
C.

a.

- 4. Write an expression for the perimeters of these geometrical shapes, and solve the problems.
 - **a.** *p* =
- **b.** *p* =
- **c.** *p* =
- **d.** In figure a), if p = 21 and s = 3.5, what is b?
- **e.** In figure c), if x = 15.5 cm and y = 11.2 cm, what is the perimeter?
- f. In figure b), if the perimeter is 5 ft, what is t?
- 5. **a.** If x + 5 = 15, what is x? **b.** If 2y - 1 has the value 11, what is y?
- 6. Fill in the table with the missing values of the variable and the missing values of the expression.







C.

| у | 2y + 4 |
|----|--------|
| 1 | |
| 10 | |
| | 34 |
| | 46 |
| | 50 |
| 50 | |