المدرسة
الوطنية الأرثوذكسية
الشميساني

The National
Orthodox School
Shmaisani

Worksheet (4) | Lower Secondary Stage (6-8)

1st Semester | 2023-2024

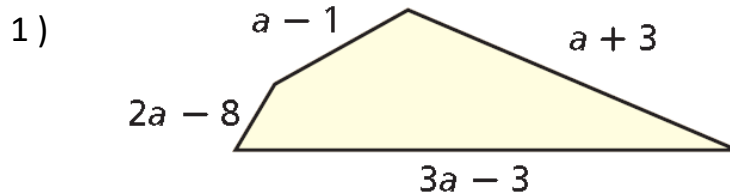**Subject:** Math   **Class:** Grade 7

Name:………………………………

Objectives:
- **Simplifying algebraic expressions.**   **Teacher's name: Rita Beqaeen**
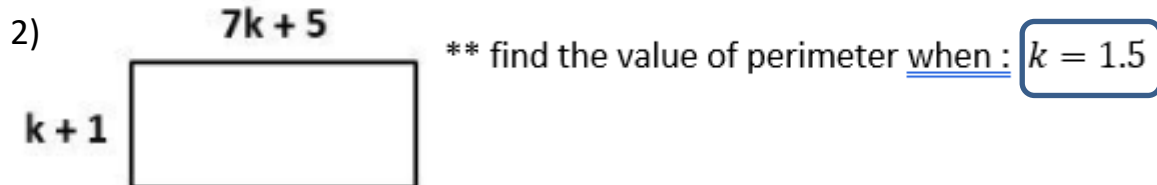

Exercise 1 :

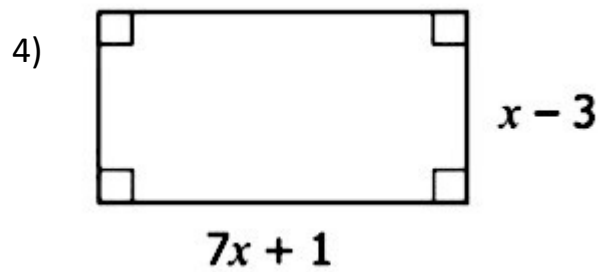Write and simplify an expression for the perimeter of each shape below .

1)

$a - 1$

$a + 3$

$2a - 8$

$3a - 3$

** find the value of perimeter when : $a = 6$

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2)

$7k + 5$

$k + 1$

** find the value of perimeter when : $k = 1.5$

3)

$x + 13$

$3x + 2$

$3x$

8

2

$x + 5$
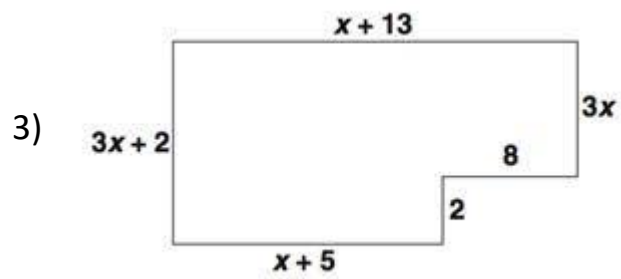
** find the value of perimeter when : $x = 0.5$

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4)

$x - 3$

$7x + 1$

** find the value of perimeter when : $x = 3.25$

5) find the value of perimeter when : x = 7.35

3x
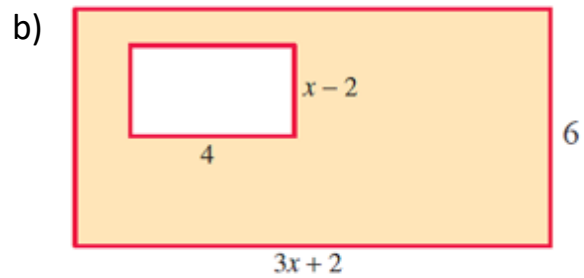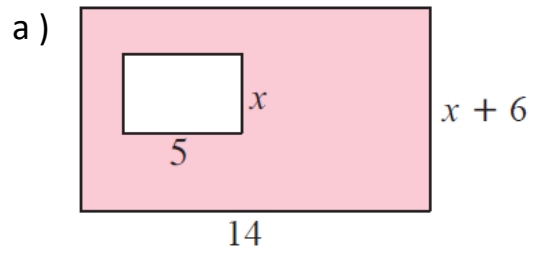
2x - y

y

y

2x

3x - y
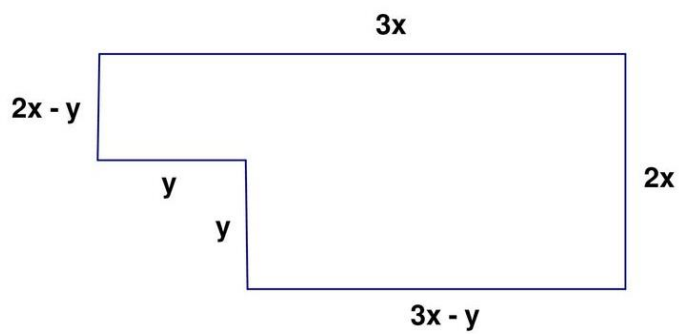
Exercise 2 :

a) Write an expression to find the area of the rectangle.
Simplify the expression.

3x + 5

7
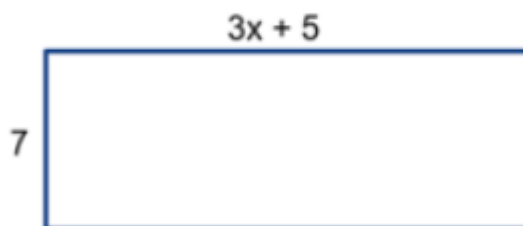
b) Use your answer to part **a** to find the value of area when : $x = 1\frac{2}{3}$

Exercise 3 :

1) Write down an expression for the shaded area of each shape below :

a)

x

$x + 6$

5

14

b)

$x - 2$

6

4

$3x + 2$

2) Find the shaded area in **exercise 3 b** , when x = 2.5