

### 3.2 Inequalities

#### -B- Solving inequalities with one unknown

Steps to solving Word Problems:

1. Read the problem. Highlight key words and important information.
2. Draw a diagram (if applicable) and label it.
3. Define your variables (let statement)
4. Choose and write the formulas you will need.
5. Solve the problem showing all your work neatly.
6. Check your work (validate).
7. Write a conclusion ( $\therefore$ ).

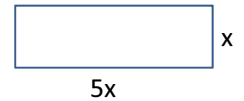
1

Ex 1: The length of a rectangle is 5 times its width.

A) find the width if the perimeter is at least 60 m.

Let width be  $x$

Then length be  $5x$



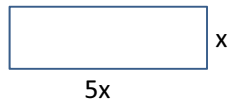
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Ex 1: The length of a rectangle is 5 times its width.

B) find the width if the area is at most  $500 \text{ m}^2$ .

Let width be  $x$

Then length be  $5x$



3

Ex 1: The length of a rectangle is 5 times its width.

C) find the width if the perimeter is at least 60 m and the area is at most  $500 \text{ m}^2$ .

4

Practice:

W.S. 3.2-B- Solving Inequalities with one unknown



5