Section 4.5b – Modeling With Algebra

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Part 1: Do It Now

Write an equation for each phrase:
a) triple a number is 18
b) 7 more than a number is 11
c) half a number is 10
d) double a number, less 3 is 7
e) 5 less than one third a number is 1
f) 2 more than triple a number is 14

Part 2: Word Problems

When solving word problems,

- define the unknowns.
- write an equation to model the situation.
- solve the equation.
- answer the question asked in the problem.
- **1)** The length of a rectangle is triple its width. The perimeter of the rectangle is 40 cm. What are the length and width?