

Exercise TD-101

How to use these exercises

The Economic Skills Project

1 Overview

1.1 Structure

Structure of the exercises

Each of these exercises has four main sections:

Problem A statement of the problem

Answer The final answer

Method A summary of the solution method

Solution A detailed, step-by-step solution

The section and page within the section are shown at the top. This exercise also has an overview section.

1.2 Forms

Alternate forms

The exercises are available in several forms and you can use the one that fits your needs best:

- An interactive sequence of slides
- A plain PDF suitable for printing
- A video explanation (some exercises)

1.3 Usage

How to use them

Here's one way to use the exercises:

1. Try the problem on your own and see if you get the right answer.
2. No? Read the solution method page and see if that helps.
3. Still no? Read the rest of the pages for the detailed answer.
4. Watch the video for even more explanation.

The rest of this document gives an example.

2 Problem

Problem

Compute the area of a triangle with the following characteristics:

Base 20

Height 12

3 Answer

Answer

Here's the solution:

- Area = 120

4 Method

Solution method

Here's one approach:

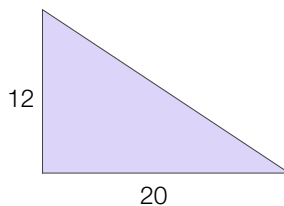
1. Draw the graph
2. Use the formula for the area of a triangle

5 Solution

5.1 Step 1

Draw the graph

Here's how it looks:



5.2 Step 2

Use the triangle area formula

The formula for the area of a triangle with base b and height h is:

- $\text{Area} = \frac{1}{2}bh$

Inserting the given values:

- Area = $\frac{1}{2} \cdot 20 \cdot 12 = 120$

Done!