

1. Calculation of a workpiece weight

Introduction

Abstract of the learning material. An extended version of this material is available at www.matematech.cz

Basic information about the material	
Author	Mgr. Marek Vejsada
Pupils age	16 to 19 years
Duration	2 school lessons
Tools and technology requirements	<ul style="list-style-type: none">- for the teacher: data projector- for pupils: sliding gauges, calculators
Required pupils knowledge and skills	<ul style="list-style-type: none">- spatial imagination (basic)- calculation of volume of cylinders, of compound solids- reading of technical drawings, knowledge of dimensions- work with tables- measuring with the sliding gauges
Acquired pupils knowledge and skills	<ul style="list-style-type: none">- gaining experience with tables and technical drawings- developing dexterity in measurement with the sliding gauges- gaining experience with volume calculation applied in technical context- understanding the usefulness of mathematics in solving real-life problems
Real-life application of the topic	Technical drawings and tables are essential for technical practice.
Established on cooperation with	Motor Jikov Group
Resources	The genuine technical drawing of the workpiece obtained from the enterprise.

1.1. Worksheet for pupils

These texts in Calibri 14, block alignment, simple spacing, no indent.

Fig. 1: A caption to a picture

1.1.1. Task No. 1

asdasdasd

1.1.2. Task No. 2

asdasdasd

1.1.3. Task No. 3

asdasdasd

1.2. Experience with the material

Author's personal experience with the material.

1.3. Exemplary solution

asdasdasd

1.4. Other similar educational materials

References to other similar materials which are available on matematech web page. Their short description.

Similar means: on the same practical topic or on the same mathematical topic or on the basis of cooperation with the same enterprise.