Calculation of a workpiece weight

Introduction

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

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| **Basic information about the material** | |
| Author | Mgr. Marek Vejsada |
| Pupils age | 16 to 19 years |
| Duration | 2 school lessons |
| Tools and technology requirements | * for the teacher: dataprojector * for pupils: sliding gauges, calculators |
| Required pupils knowledge and skills | * 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 | * 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. Worksheet for pupils

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

Fig. 1: A caption to a picture

* + 1. Task No. 1

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* + 1. Task No. 2

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* + 1. Task No. 3

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* 1. Experience with the material

Author’s personal experience with the material.

* 1. Exemplary solution

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* 1. 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.