

## Application of math knowledge in solving problems of geometrical optics

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When solving problems of geometrical optics, besides physics, it is inevitable that students use the standard geometrical apparatus. Even when the basics of physics are well known, the possible mathematical mistakes often lead to misinterpretation of the results in physical sense. Here we demonstrate an example of such misinterpretation on selected problems for Macedonian state competitions in physics. The sample of students considered are primary and high school students involved in physics competitions in the year 2016.