

Die Knobelecke

*Mathematik außerhalb des Unterrichts
am Theodor-Heuss-Gymnasium Pforzheim*

3. Runde 2021/22 Klassenstufen 7 und 8

Aufgabe 1

Find the product of the largest and the smallest of the following numbers:

0,00033

$\frac{1}{5000}$

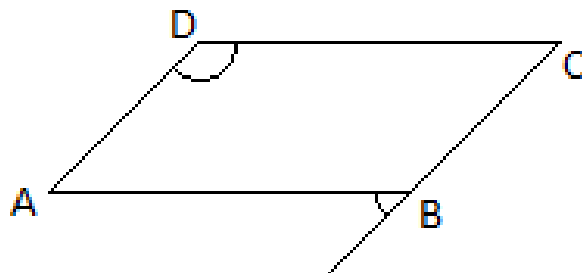
0,00022

$\frac{3}{40000}$

Aufgabe 2

The figure shows a parallelogram ABCD. The interior angle at D is 3ε while the exterior angle at B is ε .

- How can you find the value of ε ?



Aufgabe 3

For a traditional "Oatmeal Recipe" you need $\frac{3}{4}$ cup of water, $\frac{1}{4}$ teaspoon of salt and $\frac{1}{3}$ cup of oats.

If the least possible multiple¹ of the recipe is prepared so that a whole number of cups of both water and oats are used, how many teaspoons of salt will be required?

Abgabe bis Freitag, 4. März 2022!

Km

¹ a multiple = ein Vielfaches