# ALICE MUON Software for run 3

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# Outline

**ALICE** 

**Current MUON Software** 

Cluster Finder

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(Illustrating BEAMER's \pause command.)

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Let's try to find answers understandable by fifth graders (at least the more patient ones).

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Obviously, the answer is 3.

So we've derived the "invert and multiply" rule in a special case:

$$1 \div \frac{1}{3} = 3$$

## **Detector Structure**

But what if we give 2/3 of a cookie, not 1/3, to each person?

We're giving  $2\times$  as much per person.

So we can feed only 1/2 as many people.

So we feed  $\frac{1}{2} \times 3 = \frac{3}{2}$ .

So we've derived the "invert and multiply" rule in another case:

$$1\div\frac{2}{3}=\frac{3}{2}$$

<sup>&</sup>lt;sup>1</sup>One person gets only a half share.

### **Detector Structure 2**

Now, suppose we have only 4/5 of a cookie. Then we can feed only 4/5 as many people, i.e.

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So we've derived the "invert and multiply" rule in the general case:

$$\frac{4}{5} \div \frac{2}{3} = \frac{4}{5} \times \frac{3}{2}$$

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(Illustrating BEAMER's \uncover command.)

#### Theorem

The angles in a triangle sum to 180°.

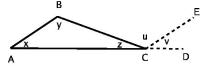
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#### **Theorem**

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Plan: Extend AC past C to D. Draw CE parallel to AB.



# Proof. 1. u = y



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Alternate angles of a transveral.



- 1. u = y
- 2. v = x

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- 3.  $z+u+v = 180^{\circ}$

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- 2. V = X
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- 4.  $z+y+x = 180^{\circ}$

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- 2. v = x Consecutive interior angles of a transveral
- 3.  $z+u+v = 180^{\circ}$  ACD is a straight line.
- 4.  $z+y+x = 180^{\circ}$  Substitution from Steps 1 and 2.

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■ This tour just scratches the surface.

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- Advanced example: http://latex-beamer. sourceforge.net/beamerexample1.pdf.