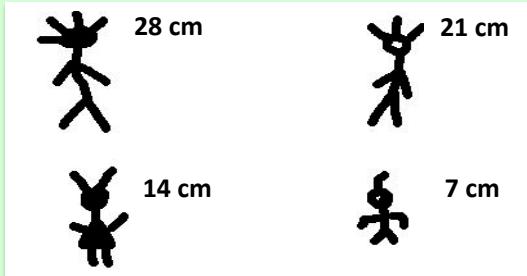


## Worksheet 2

### “The archaeologist Giancarlo”

On the ArAl mountain, in the middle of the desert, the archaeologist Giancarlo has found some graffiti engraved on the rock. He reproduced the incisions on his notebook, writing their heights. This is the page where Giancarlo reproduced the incisions:



Giancarlo's collaborators discuss a lot on the relation hidden in the graffiti.

Nicola says: "You can find the height of an incision only if you multiply 7 by the number of the tips on its head".

Battista concludes: "It is evident that , dividing the height of the incisions by 7, you can find the number of tips".

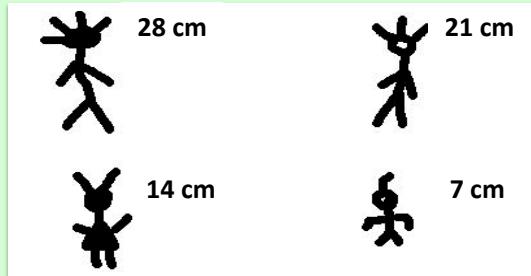
And Paolo: "What are you saying? The number of tips is the result of the division of the height by 7!".

**(2)** Martijn is a Dutch student involved in the FaSMEd project. He does not know Italian, so he was not able to read Nicola, Battista and Paolo's statements. However, looking at the incisions on Giancarlo's notebook, he wrote  $7 \cdot n = k$  . What does he wants to say to us?

## Worksheet 3

### “The archaeologist Giancarlo”

On the ArAl mountain, in the middle of the desert, the archaeologist Giancarlo has found some graffiti engraved on the rock. He reproduced the incisions on his notebook, writing their heights. This is the page where Giancarlo reproduced the incisions:



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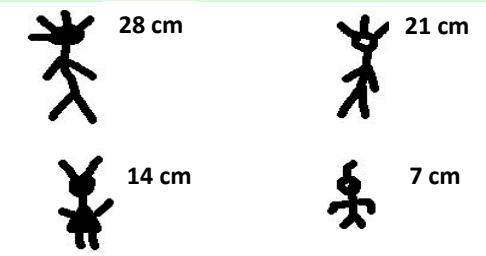
And Paolo: “What are you saying? The number of tips is the result of the division of the height by 7!”.

**(3)** We discovered that Martijn used symbols to share with us the same observation that Nicola proposed. Write a symbolic expression, which Martijn can understand, to share with him also Battista's observation.

## Worksheet 3A

### “The archaeologist Giancarlo”

On the ArAl mountain, in the middle of the desert, the archaeologist Giancarlo has found some graffiti engraved on the rock. He reproduced the incisions on his notebook, writing their heights. This is the page where Giancarlo reproduced the incisions:



Giancarlo's collaborators discuss a lot on the relation hidden in the graffiti.

Nicola says: "You can find the height of an incision only if you multiply 7 by the number of the tips on its head".

Battista concludes: "It is evident that, dividing the height of the incisions by 7, you can find the number of tips".

And Paolo: "What are you saying? The number of tips is the result of the division of the height by 7!".

What symbolic expression correctly translates Battista's observation?

$$7 : h = p$$

$$k : 7 = n$$