Access the new scooter applet by scanning the QR code or following the link: https://www.geogebra.org/m/jtvdrvtx


Last episode, Haleemah and ET came up with the general equation

$$
L=3 v+4
$$

where $v$ is Hector's velocity in $\mathrm{m} / \mathrm{sec}$ and $L$ is his end location.

1. Let's say two friends are talking to each other about the two equations $L=3 v+4$ and $L=3(-v)+4$.


$$
L=3 v+4
$$


$L=3(-v)+4$
"Worksheet: Algebraic Expressions Unit, Lesson 4, Episode 6" by MathTalk is licensed under CC BY-NC-SA 4.0
a. Explain which statement you agree with and why.
2. a. Test both equations with the values of $\mathbf{v}=\mathbf{5}$ and $\mathbf{v}=-\mathbf{4} / 3$ in the applet. What do you notice?
b. Use your observations from part a) to explain why $L=3 v+4$ is different from $\mathrm{L}=3(-\mathrm{v})+4$.

