



ACTIVITY

Name:

Date:

ACCELERATION

QUESTION & ANSWER

Determine if the statement is true or false. If false, replace the word(s) in bold with the correct word(s) on the line. If true, write 'true' on the line.

- When Moby is standing on his skateboard at the top of the ramp, his acceleration is **0**.
- If Moby is skating down the ramp, he has a **positive** acceleration.
- When Moby is slowing down, he has a **constant** acceleration.
- A skateboard ramp with a steeper angle would **increase** Moby's acceleration.
- Once Moby stops moving, his acceleration is **negative** again.

USE THE FORMULA

Use the following formula to calculate acceleration. Show all your work.

$$\text{ACCELERATION} = \frac{\text{FINAL SPEED} - \text{INITIAL SPEED}}{\text{TIME}}$$

Moby is on his skateboard and starts skating down a ramp. Ten seconds later he is traveling at 20 m/s. What was his acceleration?

$$\text{ACCELERATION} = \frac{\text{.....}}{\text{.....}} = \text{.....}$$

THINK ABOUT IT What is terminal velocity?

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