

I-72

Two blocks are stacked on top of each other on the floor of an elevator. For each of the following situations, circle the correct relationship symbol between the two forces and explain your reasoning.

a. The elevator is moving downward at a constant speed.

$F_{\text{bottom block on top block}}$ > = < ? $F_{\text{top block on bottom block}}$
Explanation:

$F_{\text{bottom block on top block}}$ > = < ? $F_{\text{gravity on top block}}$
Explanation:

b. The elevator is moving downward at an increasing speed.

$F_{\text{bottom block on top block}}$ > = < ? $F_{\text{top block on bottom block}}$
Explanation:

$F_{\text{bottom block on top block}}$ > = < ? $F_{\text{gravity on top block}}$
Explanation:

c. The elevator is moving upward at a decreasing speed.

$F_{\text{bottom block on top block}}$ > = < ? $F_{\text{top block on bottom block}}$
Explanation:

$F_{\text{bottom block on top block}}$ > = < ? $F_{\text{gravity on top block}}$
Explanation:

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