

### Math Extension for Children in Grades 3–5:

If Nate's ATLAS powered rope ascender can go up 10 feet per second while lifting 250 pounds, it can go up...

20 feet in 2 seconds,

30 feet in 3 seconds, and

40 feet in 4 seconds.

Do you see a pattern? \_\_\_\_\_

How many feet can it lift in 5 seconds? You can fill in these spaces.

\_\_\_\_\_ feet in 5 seconds.

\_\_\_\_\_ feet in 20 seconds.

\_\_\_\_\_ feet in 6 seconds.

\_\_\_\_\_ feet in 30 seconds.

\_\_\_\_\_ feet in 7 seconds.

\_\_\_\_\_ feet in 40 seconds.

\_\_\_\_\_ feet in 8 seconds.

\_\_\_\_\_ feet in 50 seconds.

\_\_\_\_\_ feet in 9 seconds.

\_\_\_\_\_ **feet in 60 seconds.**

\_\_\_\_\_ feet in 10 seconds.

What pattern do you see with these? \_\_\_\_\_

There are 60 seconds in 1 minute. How many feet can it go in 1 minute? \_\_\_\_\_

Here are some measurements of three different places on the earth. *About* how long would it take a person and their pack weighing 250 pounds to get to the top of the structures using the ATLAS powered rope ascender? Remember, Nate's ATLAS powered rope ascender can raise more than 250 pounds at 10 feet per second.

The tallest point of the Great Wall of China, 46 feet: \_\_\_\_\_

The Eiffel Tower (the top observation deck), 906 feet: \_\_\_\_\_

The deepest point of the Grand Canyon, 6,000 feet: \_\_\_\_\_

Do you think that Nate's ATLAS powered rope ascender can ascend 6,000 feet up the Grand Canyon? Why or Why not?

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