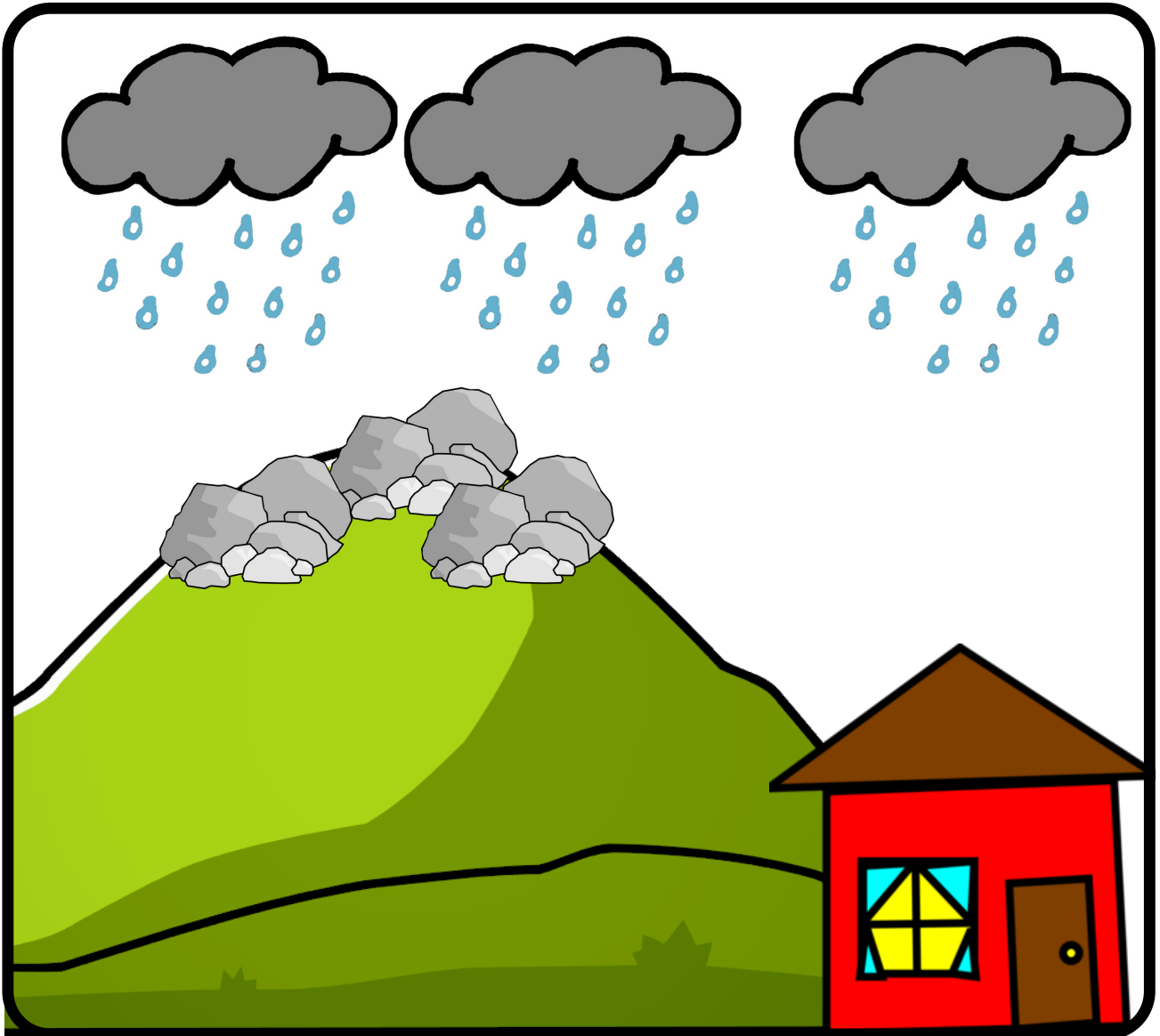


Name: \_\_\_\_\_

# Landslide!

\_\_\_\_\_ happens when wind, water or something else causes soil, rock, or land to move away.



A large amount of rain fell quickly on the hillside behind a house. As a result, some rocks and dirt slid down the hill and into the backyard of the house. Draw arrows to show the path of the rocks and dirt.

Solve: After a thunderstorm, 3,930 pounds of dirt and rock eroded down the hill to two houses below.

$\frac{2}{3}$  of the dirt and rock stopped at the first house, and  $\frac{1}{3}$  of the dirt and rock stopped at the second house.

Part A: How many pounds of earth ended up at the first house?  
(Hint: how can you find three equal parts of 3,930?)

How many pounds of earth ended up at the second house?

Part B: The dumptruck that will haul the rocks away can hold up to 1,200 pounds of dirt and rock. How many dumptrucks will it take to remove all of the dirt and rock from the two houses?



On another hill, 100 boulders sit on top. During the storm, 40 boulders started to erode down the hill. But, this hill has trees that stopped  $\frac{3}{4}$  of the eroding boulders from reaching the very bottom.

Part A: How many boulders were left at the very top of the hill?

Part B: How many boulders did the trees stop?

How many boulders reached the very bottom of the hill?