Glaciers, Water and Wind, Oh My! Activity – Erosion Math Worksheet – Answers

1. If a 12-acre forest lost ¼ of its trees due to acid rain, how many acres would be undamaged?

   12÷4 = 3

   12-3 = 9 acres

2. If property damage due to erosion along the coast is $60 million each year, how much money would be spent in 4 years?

   64x4 = $256 million

3. Your favorite beach has 42 large sand dunes. Throughout the course of the year, wind erosion destroys 8 sand dunes and creates 13 new ones. How many sand dunes would there be at the end of the year?

   42-8 = 34

   34+13 = 47 sand dunes

4. One side of a mountain is 5,280 feet long. If a glacier were to start at the very top of the mountain and travel 3 feet per year, how long would it take the glacier to reach the bottom of the mountain?

   5,280÷3 = 1,760 years

5. On a cold day in July, you notice a new crack in the sidewalk at 10:30 a.m. At 11:13 a.m. you notice the crack has doubled in length. How much time did it take for the crack to double in length?

   43 minutes