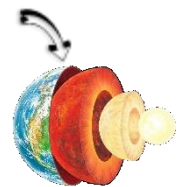


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# JOURNEY <sup>to</sup> the CENTER <sup>of</sup> the EARTH

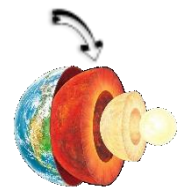
Can you make it the 4,000 miles to the center of the Earth? Work your way through each layer by correctly solving each problem until you reach the inner core!

- A)  $4.5 + 0.58$                       B)  $94.5 - 1.362$                       C)  $15.43 + 642.1$                       D)  $4.5 \cdot 0.58$



**You've reached the CRUST – only 3,970 miles to go!**

- A)  $75.51 \div 0.3$                       B)  $168.3 \div 0.09$                       C)  $255 \div 8$

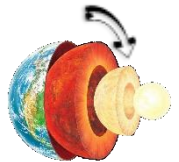


**You've reached the MANTLE! With 2,200 miles left, you are almost half-way there!**

- A) Due to the heat inside the Earth, Mikaela needed special clothing. She bought a pair of pants for \$29.75, a t-shirt for \$13.44, and a pair of shoes for \$43.87. If Mikaela paid with a \$100 bill, how much did she receive in change?
- B) The mantle has a density of 3.41 grams per cubic centimeter. The outer core is almost 2.9 times as dense as the mantle. How dense is the outer core?

C) Earth's mantle is approximately 1,802 miles thick. If Matthew is traveling at a rate of 25 miles per hour, how long will it take him to reach the outer core?

D) Myles knew he would get hungry on the trip, so he purchased 5 pounds of almonds to bring on the journey. If it will take them 8 days to reach the center of the earth, how many pounds of almonds should Myles eat per day?



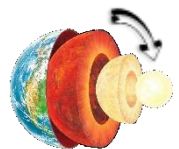
**You're on fire – literally! You've made it to the OUTER CORE where it is more than 4,000 °F.**

A) Jeremy knew that everyone would get bored on the trip so he signed up for a movie rental website. The website charges \$5 per month for membership and \$1.25 per movie. How much will Jeremy pay after 23 movies and 7 months?

B) In 2007, scientists attempted to drill through the crust to the mantle. On average, they were able to drill nearly 4.1 feet per hour. On the first day, they drilled for 2.2 hours and the second day they drilled for 3.5 hours. How far did the scientists drill during their first two days?

C) Jake's trip snacks weren't as healthy as Myles's snacks. Before his left, his mom gave him \$50 to spend on Taki's. Each bag of Taki's costs \$1.40. How many bags of Taki's was Jake able to buy for the journey?

D) The students on the trip bought t-shirts to celebrate reaching the center of the Earth. They ordered 25 blue t-shirts that cost \$237.50. They also ordered 100 pink shirts for a cost of \$829. What is the difference in **cost per shirt** between the pink shirt and the blue shirt?



**Welcome to the INNER CORE! You survived the 4,000 mile journey to the center of the earth! #winning**

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_