

NAME: _____

Problems of the Week

FSA Countdown Week 2 - PA

1.

The table shows the land areas of the five continents that are not islands. Write the continents in order from least to greatest land area. 8.EE.3

	Continent
Least Land Area	
Greatest Land Area	

Continent	Land Area (mi ²)
Africa	1.16×10^7
Asia	1.72×10^7
Europe	3.84×10^6
North America	9.37×10^6
South America	6.88×10^6

2.

The table shows the approximate populations of four countries. Write the correct country to make each statement true. 8.EE.1

Country	Austria	Lesotho	Netherlands	Surinam
Population	2^{23}	2^{21}	2^{24}	2^{19}

Austria
Lesotho
the Netherlands
Surinam

The population of is about $\frac{1}{2}$ that of the Netherlands.

The population of is about $\frac{1}{4}$ that of Lesotho.

The population of is about 8 times the population of .

3. Oceanographers divide the oceans into layers, as shown in the table. Depths below sea level are represented as negative integers. Select whether each statement is true or false. 8.EE.4

Ocean Zones	
Zone	Depth
Sunlight Zone	0 ft to -660 ft
Twilight Zone	-660 ft to $-3,300$ ft
Midnight Zone	$-3,300$ ft to $-13,000$ ft
Abyssal Zone	$-13,000$ ft and below

True False

- A whale swimming at a depth of -5.9×10^2 feet is in the sunlight zone.
 A jellyfish swimming at a depth of -3.4×10^3 feet is in the midnight zone.
 A crab swimming at a depth of -6.4×10^2 feet is in the twilight zone.
 A squid swimming at a depth of -1.8×10^4 feet is in the abyssal zone.

4. Ling is finding the volume of a cube with an edge length of $5ab^3$. Her work is shown. 8.EE.1

Part A: Circle the step(s) that show an error.

Part B: Find the correct volume for the cube.

Part C: Describe Ling's error(s) and how she should correct her work.

Part A:

Step 1 $V = (5ab^3)^3$

Step 2 $V = 5^3(a^3)(b^3)^3$

Step 3 $V = 15a^3b^6$

Part B: $V =$