

Name

Spiral Review 9

Directions: Show your work for credit. Use your notes and textbook for support

1. 2^{-3} is equivalent to

Show your work

- a -6 c $-\frac{1}{8}$
- b -8 d $\frac{1}{8}$

2. There are approximately 4,500 species of mammals on Earth and 2.8×10^4 species of fish. What is the *difference* in the number of species?

Show your work

- a 6.2×10^0 c 2.35×10^4
- b 1.6×10^{-1} d 3.25×10^4

3. Which is equivalent to $\left(\frac{1}{2}\right)^{-2}$

Show your work

- A) 4 C) $\frac{1}{0}$
- B) $\frac{1}{4}$ D) $-\frac{1}{4}$



4. Put the planets in order from the one with the smallest equatorial radius to the largest. Justify your answer.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

PLANET	EQUATORIAL RADIUS (km)
Mercury	2.44×10^3
Venus	6.05×10^3
Earth	6.38×10^3
Mars	3.4×10^3
Jupiter	7.15×10^4
Saturn	6.03×10^4
Uranus	2.56×10^4
Neptune	2.48×10^4

5. Find the missing exponent. Explain your reasoning.

Show your work

$$\frac{5^{11}}{5^?} = 5^4$$
