End of Year Review | Day 6 | Homework

A. REAL NUMBERS

1. (DOK 1) What is the definition of a rational number?
2. (DOK 1) What is the definition of an irrational number?
3. (DOK 1) What is the definition of a square root?
4. (DOK 2) Classify the following numbers as either rational or irrational.

|  |  |
| --- | --- |
| **Rational** | **Irrational** |
|  |  |

B. POWERS AND EXPONENTS

1. (DOK 1) What is the meaning of an exponent?
2. (DOK 1) How do you expand ?

Simplify each expression.

1. (DOK 2)
2. (DOK 2)
3. (DOK 2)
4. (DOK 2)
5. (DOK 2)
6. (DOK 2)
7. (DOK 2)
8. (DOK 2)
9. (DOK 2)
10. (DOK 2)
11. (DOK 2)

B. SCIENTIFIC NOTATION

(DOK 2) Write each number in standard form.

1.
2.

(DOK 2) Write each number in scientific notation.

1. 2,204,000,000
2. 0.0008331

(DOK 2) Evaluate each expression.

1. (DOK 3) Humpback whales are known to weigh as much as 8 × pounds. The tiny krill they eat weigh only 2.1875 pounds. How many times greater than krill are humpback whales?