

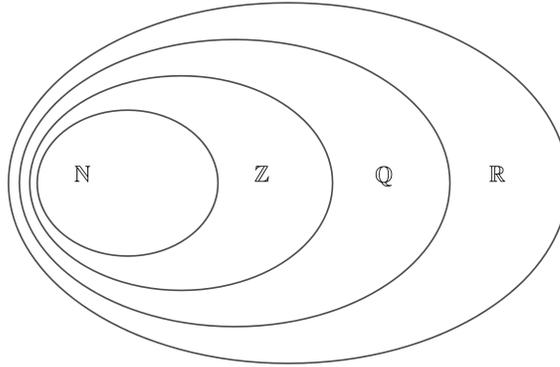
1.

[4 points]

Consider the following numbers:

$$a = \text{negative reciprocal of } \frac{1}{4}, \quad b = \frac{135135135135}{9}, \quad c = \sqrt{3}, \quad d = \sqrt{\text{lcm}(9, 12)}$$

Place each number in an appropriate part of the diagram below:

**2.**

[4 points]

Calculate:

(a) $\text{hcf}(24, 60, 80)$

(b) $\text{lcm}(10, 18, 24)$

(c) $\sqrt{1\frac{11}{25}}$

(d) $\sqrt[3]{-64}$

3.

[2 points]

Write down 200 as a product of primes and hence state the number of factors of 180.

4.

[2 points]

Write down a general form of a natural number that:

(a) is a multiple of 7

(b) leaves remainder of 3 when divided by 5