

Mulțimi de numere – clasificarea numerelor reale

Pentru fiecare mulțime A, determinați intersecțiile cerute.

1.

$$A = \{5; -3; \frac{12}{4}; -\frac{7}{3}; \sqrt{49}; -\sqrt{20}; 2\frac{1}{3}; -3\frac{1}{2}; 0,75; 0,(6); \sqrt{0,81}; \sqrt{0,5}\}$$

$$A \cap \mathbb{N} = \dots\dots\dots$$

$$A \cap \mathbb{Z} = \dots\dots\dots$$

$$A \cap \mathbb{Q} = \dots\dots\dots$$

$$A \cap (\mathbb{R} - \mathbb{Q}) = \dots\dots\dots$$

2.

$$A = \{-8; 12; \frac{15}{5}; \frac{11}{4}; -\sqrt{64}; \sqrt{18}; 4\frac{2}{5}; -2\frac{3}{4}; 1,25; -0,(3); \sqrt{1,44}; -\sqrt{0,7}\}$$

$$A \cap \mathbb{N} = \dots\dots\dots$$

$$A \cap \mathbb{Z} = \dots\dots\dots$$

$$A \cap \mathbb{Q} = \dots\dots\dots$$

$$A \cap (\mathbb{R} - \mathbb{Q}) = \dots\dots\dots$$

3.

$$A = \{9; -5; -\frac{18}{6}; \frac{13}{5}; \sqrt{100}; -\sqrt{27}; 3\frac{1}{4}; -5\frac{2}{3}; 2,4; 1,(2); \sqrt{2,25}; \sqrt{0,(4)}\}$$

$$A \cap \mathbb{N} = \dots\dots\dots$$

$$A \cap \mathbb{Z} = \dots\dots\dots$$

$$A \cap \mathbb{Q} = \dots\dots\dots$$

$$A \cap (\mathbb{R} - \mathbb{Q}) = \dots\dots\dots$$

4.

$$A = \{-11; 6; \frac{28}{7}; -\frac{17}{6}; -\sqrt{121}; \sqrt{32}; 5\frac{3}{4}; -1\frac{2}{5}; 3,75; -2,(4); \sqrt{1,21}; \sqrt{0,3}\}$$

$$A \cap \mathbb{N} = \dots\dots\dots$$

$$A \cap \mathbb{Z} = \dots\dots\dots$$

$$A \cap \mathbb{Q} = \dots\dots\dots$$

$$A \cap (\mathbb{R} - \mathbb{Q}) = \dots\dots\dots$$

5.

$$A = \{14; -7; \frac{24}{6}; \frac{19}{8}; \sqrt{144}; -\sqrt{45}; 2\frac{5}{6}; -4\frac{1}{3}; 0,125; 2,(7); \sqrt{1,96}; -\sqrt{0,6}\}$$

$$A \cap \mathbb{N} = \dots\dots\dots$$

$$A \cap \mathbb{Z} = \dots\dots\dots$$

$$A \cap \mathbb{Q} = \dots\dots\dots$$

$$A \cap (\mathbb{R} - \mathbb{Q}) = \dots\dots\dots$$

6.

$$A = \{-4; 15; -\frac{21}{7}; \frac{23}{6}; \sqrt{169}; \sqrt{50}; 6\frac{1}{5}; -3\frac{3}{8}; 4,5; -1,(6); \sqrt{3,24}; \sqrt{0,8}\}$$

$$A \cap \mathbb{N} = \dots\dots\dots$$

$$A \cap \mathbb{Z} = \dots\dots\dots$$

$$A \cap \mathbb{Q} = \dots\dots\dots$$

$$A \cap (\mathbb{R} - \mathbb{Q}) = \dots\dots\dots$$

7.

$$A = \{18; -9; \frac{35}{7}; -\frac{25}{4}; \sqrt{196}; -\sqrt{12}; 7\frac{2}{3}; -2\frac{1}{6}; 2,75; 3,(4); \sqrt{0,64}; -\sqrt{0,2}\}$$

$$A \cap \mathbb{N} = \dots\dots\dots$$

$$A \cap \mathbb{Z} = \dots\dots\dots$$

$$A \cap \mathbb{Q} = \dots\dots\dots$$

$$A \cap (\mathbb{R} - \mathbb{Q}) = \dots\dots\dots$$

8.

$$A = \{-13; 20; \frac{42}{6}; \frac{29}{5}; -\sqrt{225}; \sqrt{75}; 4\frac{3}{7}; -6\frac{1}{4}; 5,25; -0,(8); \sqrt{2,89}; \sqrt{0,6}\}$$

$$A \cap \mathbb{N} = \dots\dots\dots$$

$$A \cap \mathbb{Z} = \dots\dots\dots$$

$$A \cap \mathbb{Q} = \dots\dots\dots$$

$$A \cap (\mathbb{R} - \mathbb{Q}) = \dots\dots\dots$$

9.

$$A = \{16; -12; -\frac{32}{8}; \frac{31}{9}; \sqrt{256}; -\sqrt{28}; 8\frac{1}{2}; -3\frac{4}{5}; 6,125; 1,(7); \sqrt{4,84}; -\sqrt{0,3}\}$$

$$A \cap \mathbb{N} = \dots\dots\dots$$

$$A \cap \mathbb{Z} = \dots\dots\dots$$

$$A \cap \mathbb{Q} = \dots\dots\dots$$

$$A \cap (\mathbb{R} - \mathbb{Q}) = \dots\dots\dots$$

10.

$$A = \{-17; 25; \frac{54}{9}; -\frac{37}{8}; \sqrt{324}; \sqrt{63}; 5\frac{5}{8}; -7\frac{2}{3}; 7,2; -2,(5); \sqrt{5,76}; \sqrt{0,7}\}$$

$$A \cap \mathbb{N} = \dots\dots\dots$$

$$A \cap \mathbb{Z} = \dots\dots\dots$$

$$A \cap \mathbb{Q} = \dots\dots\dots$$

$$A \cap (\mathbb{R} - \mathbb{Q}) = \dots\dots\dots$$