

8.NS.A.1 Classify Numbers as Rational or Irrational

8.NS.A.1 Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.

1 Which number is rational?

- 1) $\frac{4}{5}$
- 2) $\frac{4}{\sqrt{5}}$
- 3) $\sqrt{7}$
- 4) $\sqrt{\frac{7}{12}}$

2 Which is a rational number?

- 1) $\sqrt{8}$
- 2) π
- 3) $5\sqrt{9}$
- 4) $6\sqrt{2}$

3 Which expression is rational?

- 1) π
- 2) $\sqrt{\frac{121}{144}}$
- 3) $\sqrt{\frac{3}{4}}$
- 4) $\sqrt{\frac{1}{4}}$

4 Which is an irrational number?

- 1) $\sqrt{9}$
- 2) 3.14
- 3) $\sqrt{\frac{3}{5}}$
- 4) $\frac{3}{4}$

5 Which is an irrational number?

- 1) 0
- 2) π
- 3) $-\frac{1}{3}$
- 4) $\sqrt{9}$

6 The number 0.14114111411114... is

- 1) integral
- 2) rational
- 3) irrational
- 4) whole

7 Which expression represents an irrational number?

- 1) $\sqrt{2}$
- 2) $\frac{1}{\sqrt{2}}$
- 3) 0.17
- 4) 0

8 Which number is irrational?

- 1) $\sqrt{9}$
- 2) $\sqrt{8}$
- 3) 0.3333
- 4) $\frac{1}{\sqrt{2}}$

9 Which is an irrational number?

- 1) $0.\overline{3}$
- 2) $\frac{3}{\sqrt{2}}$
- 3) $\sqrt{49}$
- 4) $\frac{1}{\sqrt{2}}$

10 Which number is irrational?

- 1) $\frac{5}{4}$
- 2) $0.\overline{3}$
- 3) $\sqrt{121}$
- 4) π

11 The value of $\sqrt{x^2 - 9}$ is a real and irrational number when x is equal to

- 1) 5
- 2) 0
- 3) -3
- 4) 4

12 Which number below is irrational?

$$\sqrt{\frac{4}{9}}, \sqrt{20}, \sqrt{121}$$

Why is the number you chose an irrational number?

13 Given: $\frac{\sqrt{99}}{11}, \sqrt{164}, \sqrt{196}$

Identify the expression that is a rational number and explain why it is rational.

14 Write an irrational number and explain why it is irrational.

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Michael Smith



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Eighth Grade Common Core Math Workbook John D. Forlini, 2018-01-09

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