

# 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)  $\pi$
- 2)  $\frac{1}{4}$
- 3)  $\sqrt{7}$
- 4)  $\sqrt{\frac{3}{2}}$

2 Which is a rational number?

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

3 Which expression is rational?

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

4 Which is an irrational number?

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

5 Which is an irrational number?

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

8 Which number is irrational?

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

9 Which is an irrational number?

- 1)  $0.\overline{3}$
- 2)  $\frac{3}{8}$
- 3)  $\sqrt{49}$
- 4)  $\pi$

10 Which number is irrational?

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

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.

# Keystone 8th Grade Math Exam Answer Sheet

**Michael Smith**



## **Keystone 8th Grade Math Exam Answer Sheet:**

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web description treatment of an alkylbenzene with potassium permanganate results in oxidation to give the benzoic acid notes the position directly adjacent to an aromatic group is called the benzylic position the reaction only works if there is a hydrogen attached to the carbon examples

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jul 25 2017 format the letter just like any other business letter it should have the company letter head the date it is written employee s name address reference and salutation start the body of the letter by informing the employee of the wrongdoing that has caused the disciplinary letter to be written give details of any other communication that

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jun 8 2017 the letter should detail which infractions have been committed by the employee including specifics the letter should clearly indicate what the consequences of further absenteeism will be a means for the employee to get back on track should then be outlined in the letter sample warning letter employer s name company name business

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