Math Practice - Grade 8

M1 Real numbers - Rational or irrational?

M1 8.NS.A.1, 8.NS.A.2

Name: _____ Date: _____

Is the number rational or irrational? Circle it.

Example: Is the square root of 9 rational or irrational?

How: A number is rational when it can be written as a fraction of two integers, which means its decimal ends or repeats. A square root of a non perfect square and pi are irrational.

Rational

Irrational

1 **Is the square root of 25 rational or irrational?**

Rational Irrational

2 **Is the square root of 2 rational or irrational?**

Rational Irrational

3 **Is 0.25 rational or irrational?**

Rational Irrational

4 **Is 0.1212... rational or irrational?**

Rational Irrational

5 **Is the square root of 11 rational or irrational?**

Rational Irrational

6 **Is the square root of 16 rational or irrational?**

Rational Irrational

7 **Is the square root of 10 rational or irrational?**

Rational Irrational

8 **Is -4 rational or irrational?**

Rational Irrational

9 **Is the square root of 3 rational or irrational?**

Rational Irrational

10 **Is 0.333... rational or irrational?**

Rational Irrational

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Name: _____ Date: _____

Is the number rational or irrational? Circle it.

Example: Is the square root of 36 rational or irrational?

How: A number is rational when it can be written as a fraction of two integers, which means its decimal ends or repeats. A square root of a non perfect square and pi are irrational.

Rational

Irrational

1 **Is 0.1212... rational or irrational?**

Rational Irrational

2 **Is 7 rational or irrational?**

Rational Irrational

3 **Is pi rational or irrational?**

Rational Irrational

4 **Is the square root of 9 rational or irrational?**

Rational Irrational

5 **Is 0.1010010001... rational or irrational?**

Rational Irrational

6 **Is the square root of 5 rational or irrational?**

Rational Irrational

7 **Is the square root of 7 rational or irrational?**

Rational Irrational

8 **Is 0.333... rational or irrational?**

Rational Irrational

9 **Is the square root of 16 rational or irrational?**

Rational Irrational

10 **Is the square root of 2 rational or irrational?**

Rational Irrational

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M1 Real numbers - Rational or irrational?

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Name: _____ Date: _____

Is the number rational or irrational? Circle it.

Example: Is -4 rational or irrational?

How: A number is rational when it can be written as a fraction of two integers, which means its decimal ends or repeats. A square root of a non perfect square and pi are irrational.

Rational

Irrational

1 **Is 1.5 rational or irrational?**

Rational Irrational

2 **Is the square root of 36 rational or irrational?**

Rational Irrational

3 **Is the square root of 11 rational or irrational?**

Rational Irrational

4 **Is 0.25 rational or irrational?**

Rational Irrational

5 **Is the square root of 2 rational or irrational?**

Rational Irrational

6 **Is the square root of 5 rational or irrational?**

Rational Irrational

7 **Is 7 rational or irrational?**

Rational Irrational

8 **Is pi rational or irrational?**

Rational Irrational

9 **Is the square root of 10 rational or irrational?**

Rational Irrational

10 **Is the square root of 16 rational or irrational?**

Rational Irrational