

Number System

Task Cards 8.NS.1

20 Task Cards, Recording Sheet, Answer Sheet

8.NS.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.

5 Identify if the following number is rational or irrational.
 $\sqrt{36}$

8.NS.1

6 Identify if the following number is rational or irrational.
 $\sqrt{20}$

8.NS.1

7 Identify if the following number is rational or irrational.
 $\frac{3}{4}$

8.NS.1

8 Identify if the following number is rational or irrational.
2.3489023546776...

8.NS.1

17 If a number is not classified as rational then it is _____.

18 Determine if the following rational number would be a terminating or repeating decimal.
 $\frac{2}{7}$

8.NS.1

8.NS.1



Created by:
Math in the Midwest

8.NS.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

Change the
repeating decimal
to a fraction

$$0.\overline{34}$$

8.NS.1

2

Change the
repeating decimal
to a fraction

$$0.\overline{7}$$

8.NS.1

3

Change the
repeating decimal
to a fraction

$$0.\overline{01}$$

8.NS.1

4

Change the
repeating decimal
to a fraction

$$0.\overline{237}$$

8.NS.1

5

Identify if the
following number is
rational or irrational.

$$\sqrt{36}$$

8.NS.1

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Identify if the following
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8

Identify if the following
number is rational or
irrational.

2.3489023546776...

8.NS.1

9

Change the
following fraction
into a decimal

$$\frac{7}{10}$$

8.NS.1

10

Change the
following fraction
into a decimal

$$\frac{1}{3}$$

8.NS.1

11

Change the
following fraction
into a decimal

$$\frac{3}{5}$$

8.NS.1

12

Change the
following fraction
into a decimal

$$\frac{3}{8}$$

8.NS.1

13

Identify if the
following number is
rational or irrational.

π

8.NS.1

14

Identify if the
following number is
rational or irrational.

$\sqrt{6}$

8.NS.1

15

Identify if the
following number is
rational or irrational.

12.51

8.NS.1

16

Identify if the
following number is
rational or irrational.

$\sqrt{49}$

8.NS.1

17 If a number is not classified as rational then it is

_____.

8.NS.1

18

Determine if the following rational number would be a terminating or repeating decimal.

$$\frac{2}{3}$$

8.NS.1

19

Determine if the following rational number would be a terminating or repeating decimal.

$$\frac{4}{10}$$

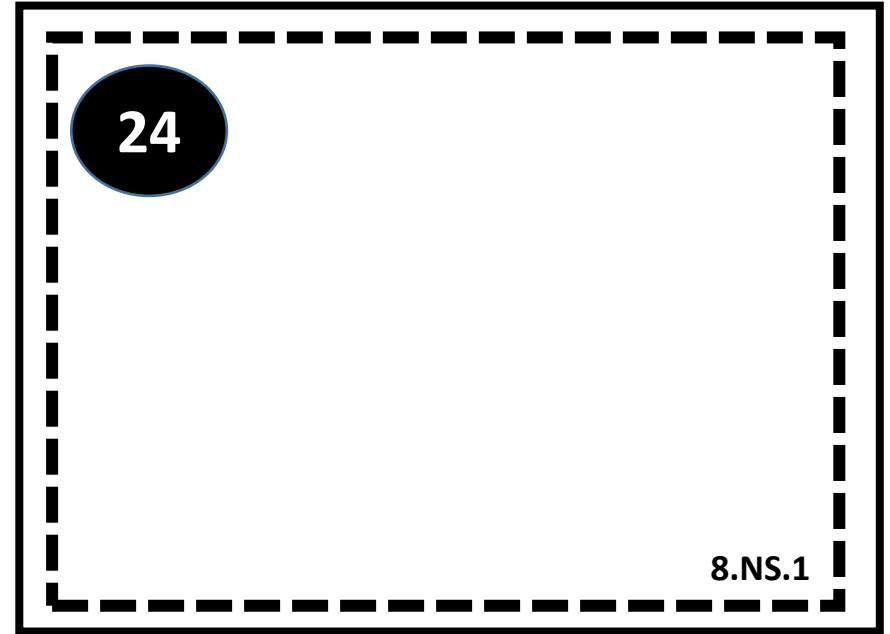
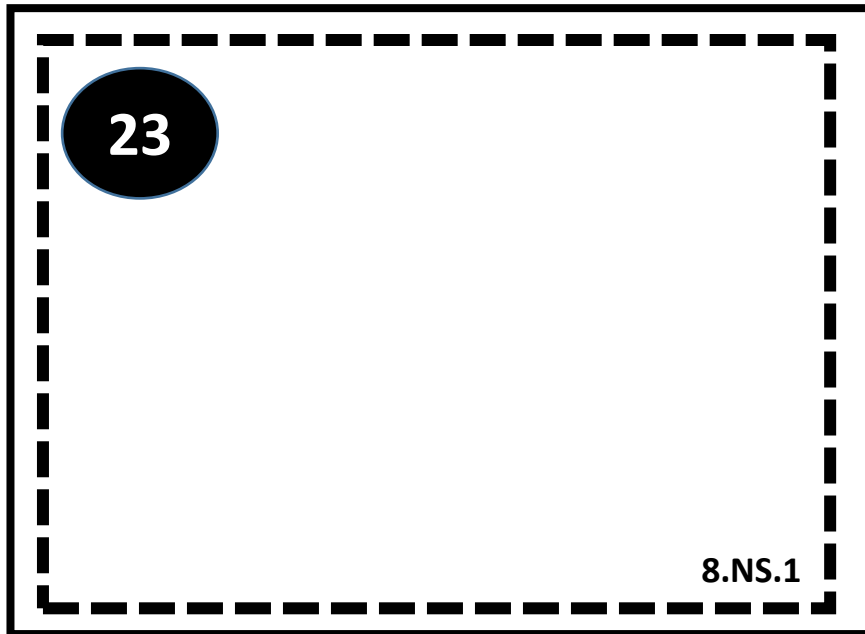
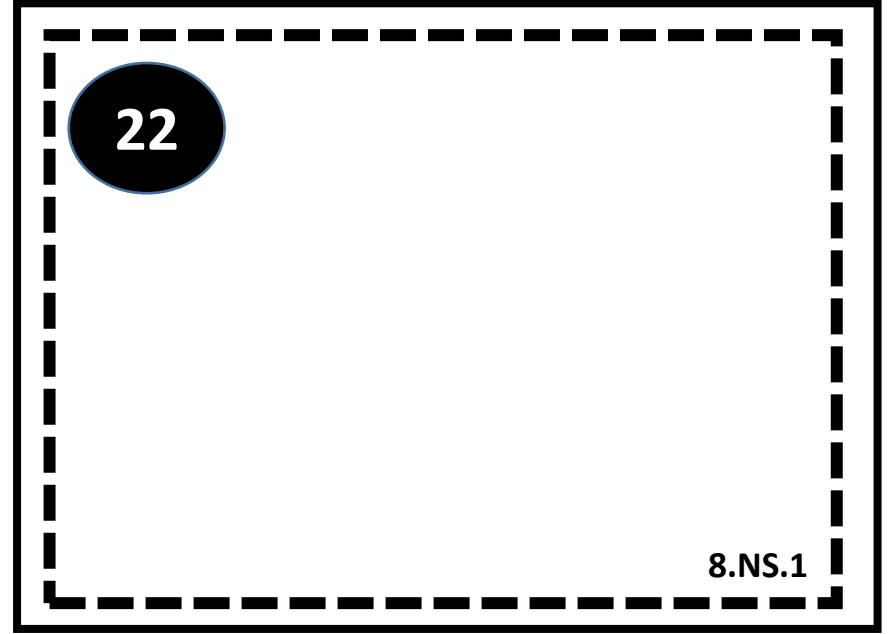
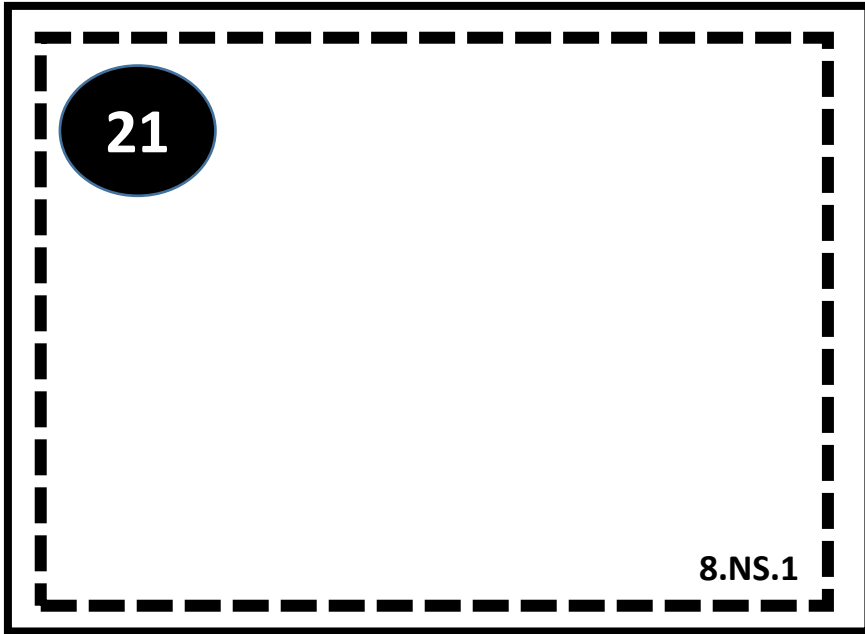
8.NS.1

20

Determine if the following rational number would be a terminating or repeating decimal.

$$\frac{7}{14}$$

8.NS.1



1

Change the
repeating decimal
to a fraction

$$0.\overline{34}$$

8.NS.1

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repeating decimal
to a fraction

$$0.\overline{7}$$

8.NS.1

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Change the
repeating decimal
to a fraction

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8.NS.1

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8.NS.1

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Determine if the following rational number would be a terminating or repeating decimal.

$$\frac{7}{14}$$

8.NS.1

21

8.NS.1

22

8.NS.1

23

8.NS.1

24

8.NS.1

Name _____

Hour _____

8.NS.1 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

Name _____

Hour _____

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.

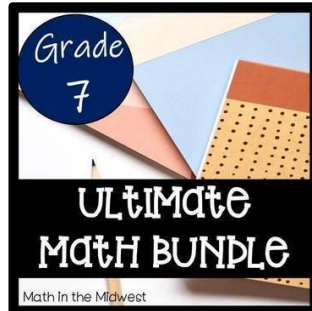
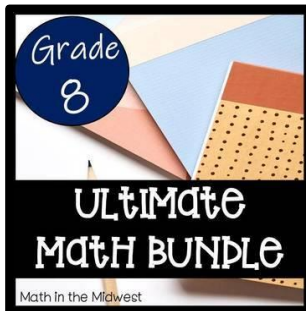
Answer Key

Number	Answer
1	$\frac{34}{99}$
2	$\frac{7}{9}$
3	$\frac{1}{99}$
4	$\frac{237}{999}$
5	Rational
6	Irrational
7	Rational
8	Irrational
9	0.7
10	$0.\overline{3}$

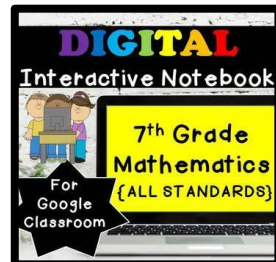
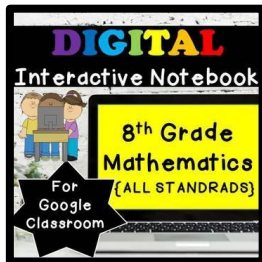
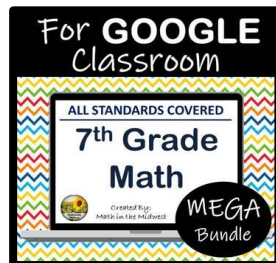
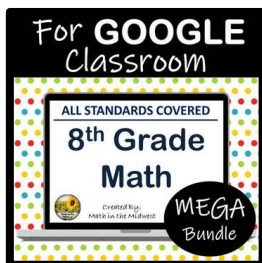
Number	Answer
11	0.6
12	0.375
13	Irrational
14	Irrational
15	Rational
16	Rational
17	Irrational
18	Repeating
19	Terminating
20	Terminating

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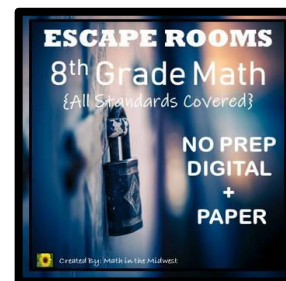
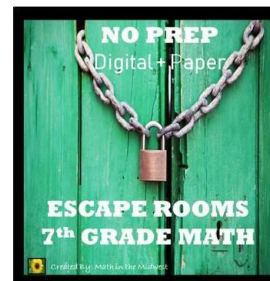
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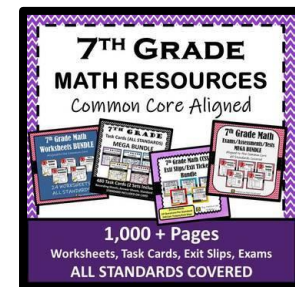
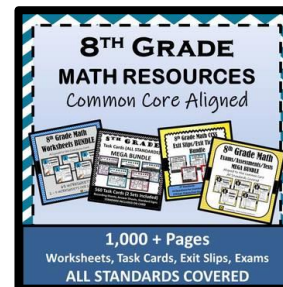
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