



**THIRD SPACE
LEARNING**

Rational Numbers Worksheet

Number and Quantity

Grades 6 to 8

Skill Questions

Name:

Date:

- 1 Show that -23 is a rational number by expressing it as a fraction in the form $\frac{p}{q}$ where p and q are integers.

Answer

- 2 Show that 55 is a rational number by expressing it as a fraction in the form $\frac{p}{q}$ where p and q are integers.

Answer

- 3 Show that $-3\frac{1}{3}$ is a rational number by expressing it as a fraction in the form $\frac{p}{q}$ where p and q are integers.

Answer

- 4 Show that 0.245 is a rational number by expressing it as a fraction in the form $\frac{p}{q}$ where p and q are integers.

Answer

- 5 Show that $9\frac{3}{4}$ is a rational number by expressing it as a fraction in the form $\frac{p}{q}$ where p and q are integers.

Answer

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6 Why is 0.3421 a rational number?

7 Why is -1.2 a rational number?

8 Why is $3,456\frac{4}{5}$ a rational number?

9 Why is -37 a rational number?

10 Why is $0.\overline{8}$ a rational number?

Applied Questions

- 11 Which one of these numbers is a rational number that lies between 3.5 and $3\frac{2}{3}$?

- a) 3.7
- b) 3.6
- c) 3.43
- d) 3.67
- e) 3.49

Answer

- 12 Show three rational numbers that are close to -4 on the number line.



Answer

- 13 Which one of these numbers is a rational number that lies between -0.8 and $-\frac{1}{5}$?

- a) -16
- b) -0.81
- c) -0.9
- d) -0.2
- e) $-\frac{2}{5}$

Answer

- 14 Show three rational numbers that are close to 3.785 on the number line.



Answer



- 15 Kayla says “ $-3\frac{3}{4}$ is not a rational number, because it is negative and it is not a fraction.”

Explain whether or not Kayla’s statement is correct, including explaining any mistakes.


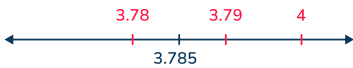
Answers

Question number	Question	Answers	Standard
1	Show that -23 is a rational number by expressing it as a fraction in the form $\frac{p}{q}$ where p and q are integers.	$-\frac{23}{1}$	6.NS.C.6
2	Show that 55 is a rational number by expressing it as a fraction in the form $\frac{p}{q}$ where p and q are integers.	$\frac{55}{1}$	6.NS.C.6
3	Show that $-3\frac{1}{3}$ is a rational number by expressing it as a fraction in the form $\frac{p}{q}$ where p and q are integers.	$-\frac{10}{3}$	6.NS.C.6
4	Show that 0.245 is a rational number by expressing it as a fraction in the form $\frac{p}{q}$ where p and q are integers.	$\frac{245}{1000}$	6.NS.C.6
5	Show that $9\frac{3}{4}$ is a rational number by expressing it as a fraction in the form $\frac{p}{q}$ where p and q are integers.	$\frac{39}{4}$	6.NS.C.6
6	Why is 0.3421 a rational number?	It can be expressed as a fraction in the form $\frac{a}{b}$ where a and b are integers; $\frac{3421}{10,000}$	6.NS.C.6

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Question number	Question	Answers	Standard
7	Why is -1.2 a rational number?	It can be expressed as a fraction in the form $\frac{a}{b}$ where a and b are integers; $-\frac{12}{10}$.	6.NS.C.6
8	Why is $3,456\frac{4}{5}$ a rational number?	It can be expressed as a fraction in the form $\frac{a}{b}$ where a and b are integers; $\frac{17,284}{5}$	6.NS.C.6
9	Why is -37 a rational number?	It can be expressed as a fraction in the form $\frac{a}{b}$ where a and b are integers; $-\frac{37}{1}$.	6.NS.C.6
10	Why is $0.\bar{8}$ a rational number?	It is a repeating decimal and can be expressed as fractions in the form $\frac{a}{b}$ where a and b are integers; $\frac{8}{9}$.	6.NS.C.6
11	Which one of these numbers is a rational number that lies between 3.5 and $3\frac{2}{3}$? a) 3.7 b) 3.6 c) 3.43 d) 3.67 e) 3.49	b) 3.6	6.NS.C.6
12	Show three rational numbers that are close to -4 on the number line. 	Answers will vary. Example answer: 	6.NS.C.6

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Question number	Question	Answers	Standard
13	Which one of these numbers is a rational number that lies between -0.8 and $-\frac{1}{5}$? a) -16 b) -0.81 c) -0.9 d) -0.2 e) $-\frac{2}{5}$	e) $-\frac{2}{5}$	6.NS.C.6
14	Show three rational numbers that are close to 3.785 on the number line. 	<i>Answers will vary.</i> Example answer: 	6.NS.C.6
15	Kayla says " $-3\frac{3}{4}$ is not a rational number, because it is negative and it is not a fraction." Explain whether or not Kayla's statement is correct, including explaining any mistakes.	<i>Explanations will vary.</i> Example answer: Kayla is incorrect, because $-3\frac{3}{4}$ can be written as the improper fraction $-\frac{15}{4}$, which can be shown as the ratio of two integers, so it is rational.	6.NS.C.6

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