**1. Complete the following statements.**

|  |  |
| --- | --- |
| a. | A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is any number that can be written as a ratio of two integers. |
| b. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ include fractions, terminating decimals, repeating decimals, integers, whole numbers, and natural numbers. |
| c. | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ include square roots that can’t be expressed as ratios (no perfect answers) and decimals that don’t repeat but that never end. |

**2. Which of the following statements are correct?**

|  |  |  |
| --- | --- | --- |
| a. | The fraction $\frac{3}{-4}$ has a denominator of $-4.$ |  |
| b. | The fraction $\frac{5}{8}$ has a numerator of$ 8$. |  |
| c. | $\sqrt{4}$ is rational because in standard form, this number is 2 which is a whole number. |  |

**3. Which of the following numbers is irrational?**

|  |  |  |
| --- | --- | --- |
| a. | $$\sqrt{256}$$ |  |
| b. | $$\sqrt{100}$$ |  |
| c. | $$\sqrt{111}$$ |  |
| d. | $$\sqrt{625}$$ |  |

**4. Which of the following numbers is a whole number?**

|  |  |  |
| --- | --- | --- |
| a. | $$\frac{-8}{2}$$ |  |
| b. | $$\frac{8}{3}$$ |  |
| c. | $$\frac{1}{8}$$ |  |
| d. | $$\frac{8}{2}$$ |  |

**5. Which of the following numbers is an integer?**

|  |  |  |
| --- | --- | --- |
| a. | $$\frac{-12}{24}$$ |  |
| b. | $$\frac{-24}{12}$$ |  |
| c. | $$\frac{6}{3}$$ |  |
| d. | $$\frac{13}{5}$$ |  |

**ANSWERS**

**1. Complete the following statements.**

|  |  |
| --- | --- |
| a. | A rational number is any number that can be written as a ratio of two integers. |
| b. | Rational numbers include fractions, terminating decimals, repeating decimals, integers, whole numbers and natural numbers. |
| c. | Irrational numbers include square roots that don’t work out to be ratios (no perfect answers) and decimals that don’t repeat but that never end. |

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