**Identify each number as rational or irrational.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | | **2.** | |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |

|  |  |
| --- | --- |
| **3.** | **Classify the numbers by writing them in the appropriate section.** |
|  | **Rational Numbers**  **Irrational Numbers**      **Integer**    **Whole Numbers**  **Natural numbers** |

**Write each rational number as a fraction with a denominator of 2.**

|  |  |  |  |
| --- | --- | --- | --- |
| **4.** |  | **5.** |  |

**Write each rational number as a fraction with a denominator of 1.**

|  |  |  |  |
| --- | --- | --- | --- |
| **6.** |  | **7.** |  |

**Write each rational number in the form of , where and are integers.**

|  |  |  |  |
| --- | --- | --- | --- |
| **8.** |  | **9.** |  |
| **10.** |  | **11.** |  |

**Arrange the numbers from least to greatest.**

|  |  |  |  |
| --- | --- | --- | --- |
| **12.** |  | **13.** |  |
|  |  |  |  |
| **14.** |  | **15.** |  |
|  |  |  |  |

**Graph each pair of numbers on the number line. Use the graph and write to compare the numbers.**

|  |  |  |
| --- | --- | --- |
| **16.** |  | **1**  **2**  **3**  **4**  **5**  **0**  **-1**  **-2**  **-3**  **-4** |
| **17.** |  | **1**  **2**  **3**  **4**  **5**  **0**  **-1**  **-2**  **-3**  **-4** |
| **18.** |  | **1**  **2**  **3**  **4**  **5**  **0**  **-1**  **-2**  **-3**  **-4** |
| **19.** |  | **1**  **2**  **3**  **4**  **5**  **0**  **-1**  **-2**  **-3**  **-4** |

**Identify each decimal as repeating or terminating.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **20.** | |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | | **21.** | |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |
| **22.** | |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | | **23.** | |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |

**ANSWERS**

**Identify each number as rational or irrational.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1.** | |  |  | | --- | --- | |  | **Rational** | |  | **Rational** | |  | **Rational** | |  | **Irrational** | |  | **Rational** | | **…** | **Rational** | |  | **Rational** | |  | **Irrational** | | **2.** | |  |  | | --- | --- | |  | **Irrational** | |  | **Rational** | |  | **Rational** | |  | **Irrational** | |  | **Rational** | | **…** | **Rational** | |  | **Rational** | |  | **Irrational** | |

|  |  |
| --- | --- |
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**Write each rational number as a fraction with a denominator of 2.**

|  |  |  |  |
| --- | --- | --- | --- |
| **4.** |  | **5.** |  |

**Write each rational number as a fraction with a denominator of 1.**

|  |  |  |  |
| --- | --- | --- | --- |
| **6.** |  | **7.** |  |

**Write each rational number in the form of , where and are integers.**

|  |  |  |  |
| --- | --- | --- | --- |
| **8.** |  | **9.** |  |
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**Arrange the numbers from least to greatest.**

|  |  |  |  |
| --- | --- | --- | --- |
| **12.** |  | **13.** |  |
|  |  |  |  |
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|  |  |  |  |

**Graph each pair of numbers on the number line. Use the graph and write or to compare the numbers.**

|  |  |  |
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| **16.** |  | **1**  **2**  **3**  **4**  **5**  **0**  **-1**  **-2**  **-3**  **-4** |
| **17.** |  | **1**  **2**  **3**  **4**  **5**  **0**  **-1**  **-2**  **-3**  **-4** |
| **18.** |  | **1**  **2**  **3**  **4**  **5**  **0**  **-1**  **-2**  **-3**  **-4** |
| **19.** |  | **1**  **2**  **3**  **4**  **5**  **0**  **-1**  **-2**  **-3**  **-4** |

**Identify each decimal as repeating or terminating.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **20.** | |  |  | | --- | --- | |  | **terminating decimal** | |  | **repeating decimal** | |  | **repeating decimal** | |  | **terminating decimal** | | **21.** | |  |  | | --- | --- | |  | **terminating decimal** | |  | **terminating decimal** | |  | **repeating decimal** | |  | **terminating decimal** | |
| **22.** | |  |  | | --- | --- | |  | **repeating decimal** | |  | **repeating decimal** | |  | **terminating decimal** | |  | **terminating decimal** | | **23.** | |  |  | | --- | --- | |  | **terminating decimal** | |  | **terminating decimal** | |  | **terminating decimal** | |  | **repeating decimal** | |