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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **1.** |

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| **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.**

|  |  |  |  |
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| **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.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **20.** |

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 | **21.**  |

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| **22.** |

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 | **23.**  |

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**ANSWERS**

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **1.** |

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| --- | --- |
|  | **Rational** |
|  | **Rational** |
|  | **Rational** |
|  | **Irrational** |
|  | **Rational** |
| **…** | **Rational** |
|  | **Rational** |
|  | **Irrational** |

 |  **2.** |

|  |  |
| --- | --- |
|  | **Irrational** |
|  | **Rational** |
|  | **Rational** |
|  | **Irrational** |
|  | **Rational** |
| **…** | **Rational** |
|  | **Rational** |
|  | **Irrational** |

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| **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.**

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

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

|  |  |  |  |
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| **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 or 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.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **20.** |

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| --- | --- |
|  | **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** |

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