

Using *whole, integer, rational, and irrational*, name all the subsets of the real numbers to which each number belongs.

11. 15

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12.  $\frac{\pi}{2}$

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13.  $-\frac{\sqrt[3]{8}}{2}$

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14.  $\frac{\sqrt{36}}{\sqrt{9}}$

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15.  $\frac{0}{\sqrt{7}}$

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15. A bedroom is 5.2 meters wide. Find its width in feet. (1 m  $\approx$  3.28 ft)

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16. A bag of rice has a mass of 3.18 pounds. Find its mass in kilograms. (1 kg  $\approx$  2.2 lb)

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17. A giraffe can run about 14 meters per second. Find its speed in miles per hour. (1 mi = 5280 ft; 1 m  $\approx$  3.28 ft)

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22. **Analyze Relationships** When a measurement in inches is converted to centimeters, will the number of centimeters be greater than or less than the number of inches? Explain.

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