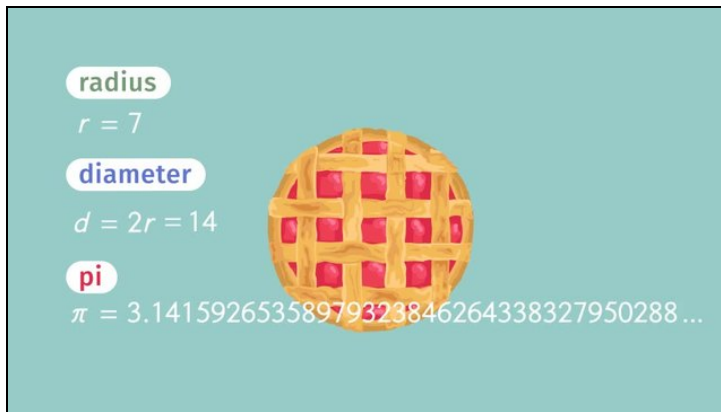Printable Worksheets from sofatutor.com

All About Pi

① **Determine which numbers are rational and which numbers are irrational.**

② Identify the different parts of a circle.

③ Calculate area and circumference of the given circles.

④ Identify true statements about circles and π.

⑤ Calculate the distance traveled by the delivery truck.

⑥ Determine the different measurements of the Ferris wheel.

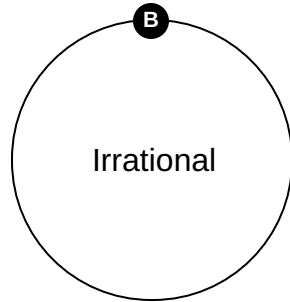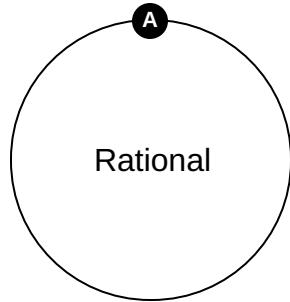⊕ with lots of tips, answer keys, and detailed answer explanations for all of the problems.

> ⚠ The complete package, **including all problems, hints, answers, and detailed answer explanations** is available for all sofatutor.com subscribers.

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1
of 6

Determine which numbers are rational and which numbers are irrational.

Assign numbers to rational or irrational.

1 0.347892...	**2** -5	**3** 0.03003...	**4** π
5 0.333333	**6** 2.71828...	**7** -0.275	**8** 3.1415926...
9 $\frac{1}{9}$	**10** $-\frac{2}{3}$		

A Rational

B Irrational

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Hints for solving these problems

Determine which numbers are rational and which numbers are irrational.

Hint #1

A rational number can be written as a fraction where both the numerator and denominator are integers.

Hint #2

A irrational number cannot be expressed as a fraction.

Hint #3

Rational Numbers:

- $5, \frac{1}{2}, -2, -\frac{7}{8}$

Irrational Numbers:

- $0.07007..., 0.78788...$

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Answers and detailed answer explanations for these problems

1 of 6   **Determine which numbers are rational and which numbers are irrational.**

Answer key: A: 2, 5, 7, 9, 10 // B: 1, 3, 4, 6, 8

A **rational number** is a number that can be written as a fraction where both the numerator and denominator are integers, and the denominator is not zero:

- $\frac{1}{9}$, -5, $-\frac{2}{3}$, -0.275, 0.333333

An **irrational number** cannot be expressed as a fraction between two integers. Instead, the decimal expansion goes on forever:

- π, $0.03003...$, $0.347892...$, $2.71828...$, $3.1415926...$

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