ExamView

Which of the following is an irrational number?

a.
$$\frac{5}{4}$$
b. $\frac{-15}{10}$

c.
$$\sqrt{20}$$

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ExamView

Which of the following is equivalent to $\frac{2^{-6}}{2^{-7}}$?

c.
$$2^{1}$$
 d. 2^{2}

What is the rational number equivalent to $2.\overline{50}$?

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ExamView

bacteria are in the petri dish?
a. 915 There are $(9^4)^4 \cdot 9^2$ bacteria in the petri dish. What is the total number of

b. 9²⁰

What value is equivalent to $\left(\frac{1 \bullet 2 \bullet 3}{1 \bullet 5}\right)^3 \times \left(\frac{7^0}{3^{-3}}\right)^2 \times 3^{-6}$?

a.
$$\frac{54}{5}$$
b. $\frac{216}{5}$

c.
$$\frac{6}{125}$$

d. $\frac{216}{125}$

d.
$$\frac{2}{1}$$

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ExamView

Simplify $\frac{7^3 \bullet 7^3}{7^2}$

ExamView

Which of the following is equivalent to $\frac{4^2}{4^7}$?

a.
$$\frac{1}{16384}$$

b. $\frac{1}{4096}$

c.
$$\frac{1}{16}$$

d. $\frac{1}{1024}$

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ExamView

What is the simplified expression for $\frac{4^{-2} \cdot 5^4 \cdot 4^7}{5^5 \cdot 4^4}$?

a.
$$\frac{4}{5}$$
b. $\frac{4}{5^4}$

c.
$$\frac{4^4}{4^4}$$

ExamView

What calculation could be used to find $y^5 = 243$

a.
$$y = \frac{\sqrt{243}}{5}$$

c.
$$y = \frac{24}{5}$$

a.
$$y = \frac{\sqrt{243}}{5}$$

b. $y = \sqrt{243}$

c.
$$y = \frac{243}{5}$$

d. $y = \frac{5}{243}$

ExamView

Which of the following shows the location $\sqrt{16}$ accurately on a number line?

Which of the following is an irrational number?

a.
$$\sqrt{4}$$

b. $\sqrt{16}$

c.
$$\sqrt{10}$$

d. $\sqrt{25}$

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ExamView

Which value is not in scientific notation?

a.
$$79.8 \times 10^{-2}$$

c.
$$8.88 \times 10^{-4}$$

b.
$$7.76 \times 10^{-2}$$

d.
$$8.09 \times 10^{-5}$$

ExamView

What is the sum of 2.7×10^{7} and 3.7×10^{7} ?

a. 0.64×10^{14}

c. 6.4×10^{14}

a. 2.88×10^{36} b. 2.88×10^{36}

d. 2.88×10^{-13} 2.88×10^{13}

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Multiply $\left(2.4 \times 10^4\right) \bullet \left(1.2 \times 10^9\right)$. Express your answer in scientific notation.

 6.4×10^{7}

d. 0.64×10^7

ExamView 1

and the distance of star Volky from the same Sun is 1.4×10^{10} kilometers. distance of Marvin from the Sun? About how many more kilometers is the distance of Volky from the Sun than the The distance of star Marvin from its Sun is approximately 7.9×10^9 kilometers,

- a. 6.1×10^{10} kilometers
- ġ. 6.5×10^9 kilometers
 - 6.1×10^9 kilometers

 6.5×10^{10} kilometers

d. c.

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ExamView

 1.28×10^{-30} grams. Which of the following shows and explains the approximate total mass, in grams, of all the atoms of the gas in the container? A closed container has 1.07×10^{29} atoms of a gas. Each atom of the gas weighs

- a. 0.14 grams, because $(1.07 \bullet 1.28) \bullet (10^{29} \bullet 10^{-30}) = 1.3696 \bullet 10^{-1}$
- b. 0.24 grams, because $(1.07 + 1.28) \bullet (10^{29} \bullet 10^{-30}) = 2.35 \bullet 10^{-1}$
- 2.35 grams, because $(1.07 + 1.28) \bullet (10^{29} \bullet 10^{-30}) = 2.35$
- d. 1.37 grams, because $(1.07 \bullet 1.28) \bullet (10^{29} \bullet 10^{-30}) = 1.3696$

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