Giantburgers

This headline appeared in a newspaper.

Every day 7% of Americans eat at Giantburger restaurants

Decide whether this headline is true using the following information.

- There are about 8×10^3 Giantburger restaurants in America. 8000

- Each restaurant serves about 2.5×10^3 people every day. 2500   2

- There are about 3×10^8 Americans. 300,000,000

Explain your reasons and show clearly how you figured it out.

8000 · 2500 = 20,000,000 people eat every day

7% of 300,000,000 = 21,000,000   3

The headline is close to true. The number of people 2

that actually eat at the resturaunt and the   2

estimated number are close   1

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$$\begin{array}{r} .0066 \\ 300\overline{)2.000} \\ -1800 \\ \hline 2000 \\ -2000 \\ \hline \end{array}$$

8000×2500

$\overline{300,000,000}$

$\dfrac{2,000,000}{300,000,000}$ ✓

$6.\overline{66}\%$

The headline is FALSE, because the actual % is 6.67% of Americans.
$8 \times 10^3 = 8000$ restaurants, and $2.5 \times 10^3 = 2500$ people @ ea. restaurant.   2

Thus, about 200 0,000 $\times$ people go to Giantburger restaurants a day. $3 \times 10^8 =$ ____   (2)

300 million people (Americans). That means that 2 million out of 300 million   2

people eat at Giantburger restaurants, which $\approx 6.67\%$, not 7%.

2

2

1

⑨

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To figure out how many people Giantburger
serves per day, you would multiply
$(8 \times (10)^3)$ by $(2.5 \times (10)^3)$, totaling 20,000,000
Then you divide that number by how many
Americans there are, $(3 \times (10)^8)$ or 300,000,000.
So, 20,000,000 ⟌300,000,000 = .066. If you rounded
.066 to .07 or 7%, the statement is correct.

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$3 \times 10^8 = 306,000,000$ ✓

$8 \times 10^3 = 8000$ ✓ $\times$ 20,000,000 ✓

$2.5 \times 10^3 = 2500$

$\dfrac{20,000,000 \checkmark}{3,000,000,000} = .0666667 \times 100$

$= 6.7\%$ ✓

$\wedge \quad \wedge$

CCR 3

⑨

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$(8 \times 10^3)(2.5 \times 10^3)$ = # total people served ✓   2

20×10^6 3

$= 2.0 \times 10^7$ ✓ people /day   2

$\dfrac{2.0 \times 10^7}{3 \times 10^8}$ ✓ $\dfrac{2}{3 \times 10}$ ✓ $= \dfrac{2}{30} \approx 0.067$ ✓   2

≈ 0.07

$= 7\%$ 1

It's true ✓