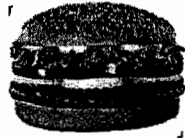## Giantburgers

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

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

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

$8000 \cdot 2500 = 20,000,000$ people eat every day

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

The headline is close to true. The number of people that actually eat at the resturaunt and the estimated number are close

CCR 3

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

$8000 \times (2500) = $

$300,000,000$

$2\cancel{000000}$

$300\cancel{000000}$

$6.\overline{66}\%$

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.

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

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

people eat at Giantburger restaurants, which ≈ 6.67%, not 7%.

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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, $(3\times(10)^{10})$ or 300,000,000. So, 20,000,000 $\overline{)300,000,000}$ = .066 . If you rounded .066 to .07 or 7%, the statement is correct.

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$3 \times 10^8 = 306,000,000$

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

$2.5 \times 10^3 = 2500$

$\dfrac{20,000,000}{3000,000,000} = .0666667 \times 100$

$= 6.7\%$

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$$(8 \times 10^3)(2.5 \times 10^3) = \text{\# total people served}$$

$$20 \times 10^6$$

$$= 2.0 \times 10^7 \text{ people /day}$$

$$\frac{2.0 \times 10^7}{3 \times 10^8} \qquad \frac{2}{3 \times 10} = \frac{2}{30} \approx 0.067$$
$$\approx 0.07$$
$$= 7\%$$

It's true