

Division Worksheets

Two fifth graders solved $400,000$ divided by 800 . Carter said the answer is 500 , while Kim said the answer is $5,000$.

a. Who has the correct answer? Explain your thinking.

b. What if the problem is $4,000,000$ divided by $8,000$? What is the quotient?

Division Worksheets

Two fifth graders solved $400,000$ divided by 800 . Carter said the answer is 500 , while Kim said the answer is 5000 .

a. Who has the correct answer? Explain your thinking.

$$\begin{aligned} &400,000 \div 800 \\ &= 400,000 \div 100 \div 8 \\ &= 4,000 \div 8 \\ &= 500 \end{aligned}$$

Carter was correct because as it showed on the last step, 4 thousands divided by 8 is equal to 5 hundreds, not 5 thousands.

b. What if the problem is $4,000,000$ divided by $8,000$. What is the quotient?

$$\begin{aligned} &4,000,000 \div 8,000 \\ &= 4,000,000 \div 1,000 \div 8 \\ &= 4,000 \div 8 \\ &= 500 \end{aligned}$$

The quotient was 500.