

Using Mental Math to Divide

When dividing numbers that end in zero, you can use basic division facts, as well as patterns, to help you divide mentally. For example:

	Find $210 \div 7$.	Find $4,200 \div 6$.
What You Think	First, find the basic fact. $210 \div 7 =$ $21 \div 7 =$ $21 \text{ tens} \div 7 =$ 3 tens or 30	Find the basic fact. $4,200 \div 6 =$ $42 \div 6 =$ $42 \text{ hundreds} \div 6 =$ 7 hundreds or 700
What You Write	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">$210 \div 7 = 30$</div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">$4,200 \div 6 = 700$</div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div>

Divide. Use mental math.

1. $250 \div 5 =$ _____

2. $7,200 \div 9 =$ _____

3. $200 \div 4 =$ _____

4. $28,000 \div 7 =$ _____

5. $810 \div 9 =$ _____

6. $50,000 \div 5 =$ _____

7. **Number Sense** What basic fact would you use to help solve $450,000 \div 9$? _____

8. In 1 week there are 7 days. How many weeks are in 210 days? _____

9. How many weeks are there in 420 days? _____