

Estimating Quotients

Estimate $460 \div 9$.

You can use compatible numbers.

Ask yourself: What is a number close to 460 that could be easily divided by 9?
Try 450.

$$450 \div 9 = 50$$

So, $460 \div 9$ is about 50.

You can also estimate by thinking about multiplication.

Ask yourself: Nine times what number is about 460?

$$9 \times 5 = 45, \text{ so } 9 \times 50 = 450.$$

So, $460 \div 9$ is about 50.

50 is a good estimation for this problem.

Estimate each quotient.

1. $165 \div 4$ _____

2. $35 \div 4$ _____

3. $715 \div 9$ _____

4. $490 \div 8$ _____

5. $512 \div 5$ _____

6. $652 \div 8$ _____

7. $790 \div 9$ _____

8. $200 \div 7$ _____

9. $311 \div 6$ _____

10. **Number Sense** Complete by filling in the circle with $<$ or $>$.

Without dividing, explain how you know which quotient is greater.

$315 \div 5$ ○ $347 \div 5$
