Using Multiplication Facts to Estimate

Estimate each quotient. Show which multiplication facts you used to make your estimates.

Example: $7\overline{)468}$

Think:

$7 \times \boxed{50} =$	350
$7 \times \boxed{60} =$	420
$7 \times \boxed{70} =$	490

← 468

Answer: The quotient will be at least 60 but less than 70. I used multiples of 10 and 7×5, 7×6, and 7×7. Since 468 is between $7 \times 60 = 420$ and $7 \times 70 = 490$.

1. Keenya listed the following quotients to help her solve $384 \div 5$.

$5 \times \boxed{50} = 250$
$5 \times \boxed{60} = 300$
$5 \times \boxed{70} = 350$
$5 \times \boxed{80} = 400$

Write an estimate using her list of multiplication facts.

2. $256 \div 4$

3. $416 \div 5$

4. $3\overline{)225}$

5. $728 \div 8$

6. $8\overline{)536}$

7. $9\overline{)235}$

8. $290 \div 7$

9. $6\overline{)342}$

Estimating Quotients