## Estimating Quotients with 2-Digit Divisors

You can use compatible numbers to estimate a quotient.
Find $175 \div 32$.

Step 1: Find compatible numbers for 175 and 32.

32 rounds to 30 .
Think: 18 can be divided evenly by 3 .

180 is close to 175 and 30 is close to 32.

180 and 30 are compatible numbers.

Step 2: Divide. Use patterns to help you, if possible.

Think: $180 \div 30$ is the same as 18 tens $\div 3$ tens.
$18 \div 3=6$
So, $180 \div 30=6$.

Step 3: Check for reasonableness.
$6 \times 30=180$
So, a good estimate of $175 \div 32$ is 6 .

Estimate each quotient using compatible numbers.

1. $298 \div 25$
2. $5,391 \div 77$
3. $24,303 \div 12$
4. $276 \div 42$
5. $1,347 \div 54$
6. $5,564 \div 91$

At Elmer Elementary School, fifth-grade students are saving money for a summer trip to Washington, D.C.
7. The money Percy has saved is how many times as great as the money James has saved?

| Student | Amount Saved |
| :--- | :---: |
| Percy | $\$ 125$ |
| Emily | $\$ 80$ |
| George | $\$ 202$ |
| James | $\$ 41$ |
| Bertha | $\$ 159$ |

