

Name _____

Reasonable Quotients Answer Key

Estimate Exact Quotient Reasonable?

1 $8 \div 4 = 2$ 2.025 Yes

2 $15 \div 5 = 3$ 2.94 Yes

3 $21 \div 7 = 3$ 2.8 Yes

4 $24 \div 8 = 3$ 3.4 Yes

5 $30 \div 6 = 5$ 5.25 Yes

6 $45 \div 9 = 5$ 4.7 Yes

7 $56 \div 4 = 14$ 13.95 Yes

8 $64 \div 8 = 8$ 7.9 Yes

9 $75 \div 3 = 25$ 24.7 Yes

10 $90 \div 5 = 18$ 17.9 Yes

Teacher's Guide

- Model how to round the dividend to a nearby compatible number before dividing.
- Emphasize that estimates do not need to be exact. They should be close enough to judge whether the final answer is reasonable.
- Provide place value charts or number lines for students who need additional support with rounding.
- Have students explain why an exact quotient is greater than or less than the estimate in selected problems.
- Turn the activity into a partner challenge by having one student estimate while the other solves exactly, then compare results.
- Extend learning by asking students to create three decimal division problems with compatible numbers that produce easy estimates.