

Smart Estimates Answer Key

1. Estimate: $5 + 2 = 7$ km. Exact: 4.2 km. Reasonable: Yes
2. Estimate: $9 - 3 = 6$ kg. Exact: 5.3 kg. Reasonable: Yes
3. Estimate: $5 \times 4 = 20$ dollars. Exact: \$18.75. Reasonable: Yes
4. Estimate: $12 \div 6 = 2$ L. Exact: 2.4 L. Reasonable: Yes
5. Estimate: $6 + 4 = 10$ kg. Exact: 10.1 kg. Reasonable: Yes
6. Estimate: $13 - 4 = 9$ m. Exact: 8.4 m. Reasonable: Yes
7. Estimate: $7 \times 2 = 14$ kg. Exact: 17.15 kg. Reasonable: Yes
8. Estimate: $16 \div 8 = 2$ L. Exact: 2.1 L. Reasonable: Yes

Teacher's Guide

- Model rounding each decimal before solving the exact problem.
- Remind students that estimates are used to check whether an exact answer makes sense, not to replace exact calculations.
- Encourage students to explain why their exact answer is close to their estimate.
- Support learners by reviewing rounding to the nearest whole number before starting.
- Have partners compare estimates before solving and discuss any differences.
- Extend the lesson by asking students to create a decimal word problem and provide both an estimate and an exact solution.