
Reteaching 3-2 Estimating Decimal Products and Quotients

Estimate $\$3.14 \div \0.75 .

Round 0.75. Since 5 is 5 or greater, add one to the 7, so $0.75 \approx 0.8$.

Round 3.14 to a compatible number, one that is easy to divide by 0.8. Since $8 \cdot 4 = 32$, round 3.14 to 3.2.

Mentally divide $3.2 \div 0.8 = 4$

Thus $\$3.14 \div 0.75 \approx \4 .

Estimate each quotient using compatible numbers.

1. $15.831 \div 7.87 \approx$ _____ \div _____ $=$ _____

2. $163.7 \div 0.46 \approx$ _____ \div _____ $=$ _____

3. $-472 \div 78.6 \approx$ _____ \div _____ $=$ _____

4. $11.45 \div 3.2 \approx$ _____ \div _____ $=$ _____

5. $549.7 \div 51.4 \approx$ _____ \div _____ $=$ _____

6. $-9.6 \div (-1.854) \approx$ _____ \div (_____) $=$ _____

7. $6.39 \div (-0.82) \approx$ _____ \div (_____) $=$ _____

8. $-31.8 \div 0.56 \approx$ _____ \div _____ $=$ _____

9. $336.4 \div (-4.23) \approx$ _____ \div (_____) $=$ _____

10. $82.56 \div 8.72 \approx$ _____ \div _____ $=$ _____

11. $-62.31 \div 14.89 \approx$ _____ \div _____ $=$ _____

12. $25.8 \div 6.72 \approx$ _____ \div _____ $=$ _____

13. $131 \div 42.1 \approx$ _____ \div _____ $=$ _____

14. $1.53 \div 0.28 \approx$ _____ \div _____ $=$ _____

15. $6,243 \div (-75) \approx$ _____ \div (_____) $=$ _____