English Spanish

3 Chapter Review

Check It Out
Vocabulary Help
BigIdeasMath.com

Review Examples and Exercises

3.1 Decimals and Estimation *(pp. 106–111)*

Estimate by rounding to the nearest whole number.

a. 9.6×16.2

$9.6 \times 16.2 \approx 10 \times 16 = 160$

9.6 rounds up to 10. 16.2 rounds down to 16.

So, 9.6×16.2 is about 160.

b. $55.7 \div 8.43$

$55.7 \div 8.43 \approx 56 \div 8 = 7$

55.7 rounds up to 56. 8.43 rounds down to 8.

So, $55.7 \div 8.43$ is about 7.

Use compatible numbers to estimate the product or quotient.

a. 32.21×4.87

$32.21 \times 4.87 \approx 30 \times 5$ 30 and 5 are compatible numbers.

$= 150$ Multiply.

So, 32.21×4.87 is about 150.

b. $73.63 \div 24.88$

$73.63 \div 24.88 \approx 75 \div 25$ 75 and 25 are compatible numbers.

$= 3$ Divide.

So, $73.63 \div 24.88$ is about 3.

Exercises

Estimate by rounding each factor to the nearest whole number.

1. 15.8×2.1 **2.** 24.45×5.27 **3.** $31.98 \div 4.21$

Use compatible numbers to estimate the product or quotient.

4. 22.9×3.02 **5.** $47.89 \div 6.99$ **6.** $87.57 \div 10.97$

3.2 Multiplying Decimals and Whole Numbers *(pp. 112–117)*

Find 3.6 × 4.

$$\begin{array}{r} 3.6 \\ \times\ \ 4 \\ \hline 14.4 \end{array}$$

← One decimal place

← Count one decimal place from right to left

Exercises

Multiply. Use estimation to check your answer.

7. 5.3×8 **8.** 6.1×7 **9.** 4.68×3

10. 8.194×9 **11.** 0.052×4 **12.** 0.302×5

13. BIKING Your friend lives 1.3 miles from you. One week, you rode your bike to your friend's house and back home three times. How many miles did you ride?

3.3 Multiplying Decimals *(pp. 118–123)*

Find 7.5 × 5.3.

$$\begin{array}{r} 7.5 \\ \times\ 5.3 \\ \hline 225 \\ +\ 375 \\ \hline 39.75 \end{array}$$

← 1 decimal place

← + 1 decimal place

← 2 decimal places

∴ So, $7.5 \times 5.3 = 39.75$.

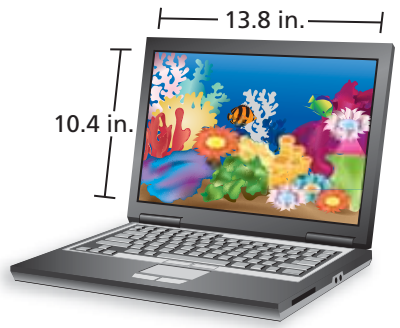
Exercises

Multiply. Use estimation to check your answer.

14. 4.8×1.9 **15.** 6.2×5.18 **16.** 5.45×3.57

17. 9.475×8.03 **18.** 0.27×4.42 **19.** 0.051×0.244

20. AREA Find the area of the computer screen.



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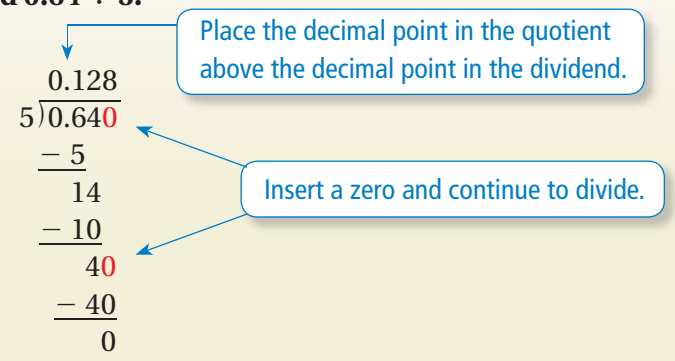
3.4 Dividing Decimals by Whole Numbers *(pp. 126–131)*

Find 0.64 ÷ 5.



∴ So, 0.64 ÷ 5 = 0.128.

Exercises

Evaluate the expression.

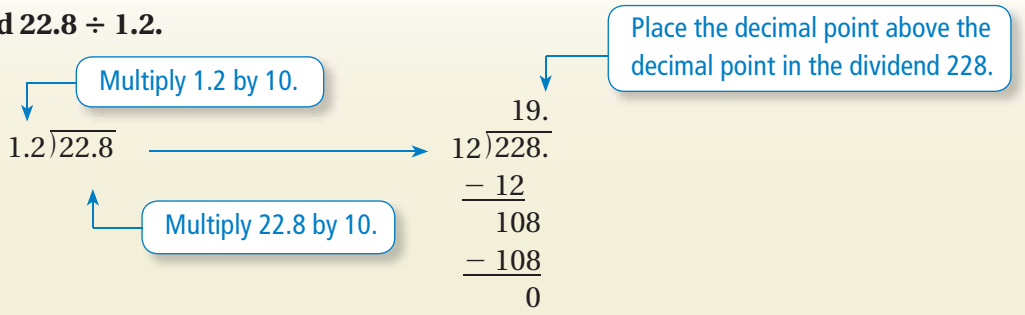
21. 6.8 ÷ 4 **22.** 13.2 ÷ 6 + 4 **23.** 49.7 ÷ 7

24. 3.68 ÷ 8 **25.** 3.15 ÷ 9 **26.** 46.25 ÷ 5 − 2

27. SOCCER LEAGUE It costs $542.24 for a team to play in an indoor soccer league. There are 18 players on the team and they split the cost evenly. How much does each player pay?

3.5 Dividing Decimals *(pp. 132–137)*

Find 22.8 ÷ 1.2.



∴ So, 22.8 ÷ 1.2 = 19.

Exercises

Divide.

28. 1.2 ÷ 0.4 **29.** 0.195 ÷ 1.5 **30.** 34.992 ÷ 5.4

31. $0.12\overline{)3.6}$ **32.** $2.5\overline{)0.125}$ **33.** $3.9\overline{)22.23}$