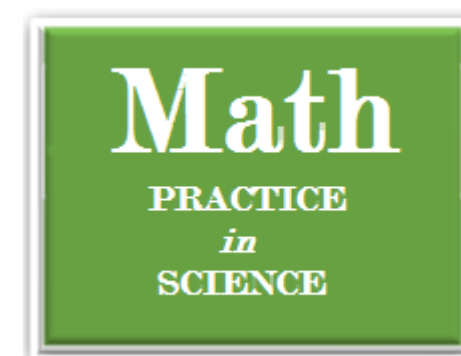


055 Math Practice

Dividing Decimals by Whole Numbers



Division of decimals by whole numbers can be expressed in three different ways. Look at the example.

Example: Divide 16.8 by 8. This means the same as

$$16.8 \div 8 \quad \text{or} \quad \frac{16.8}{8} \quad \text{or} \quad 8 \overline{)16.8}$$

Step 1: Notice that the divisor is a whole number.

$$8 \overline{)16.8}$$

Step 2: Find the decimal point in the dividend. Write a new decimal point directly above it.

$$8 \overline{)16.\overset{\cdot}{8}}$$

Step 3: Divide. Use the same rules you follow when you divide.

$$\begin{array}{r} 2.1 \\ 8 \overline{)16.8} \\ \underline{16} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

**Find the quotients for these division problems.
Each quotient will end on or before the thousandths place.**

1. $6 \overline{)11.4}$

2. $7 \overline{)17.5}$

3. $16 \overline{)28.8}$

4. $28 \overline{)70.28}$

5. $36 \overline{)111.6}$

6. $5 \overline{)1.15}$

7. $11 \overline{)44.11}$

8. $9 \overline{)49.95}$

9. $6 \overline{)5.58}$

10. $13 \overline{)33.8}$

11. $14 \overline{)58.8}$

12. $3 \overline{)3.09}$

13. $15 \overline{)9.3}$

14. $45 \overline{)45.45}$

15. $9 \overline{)23.67}$

16. $28 \overline{)3.08}$

17. $11 \overline{)2.541}$

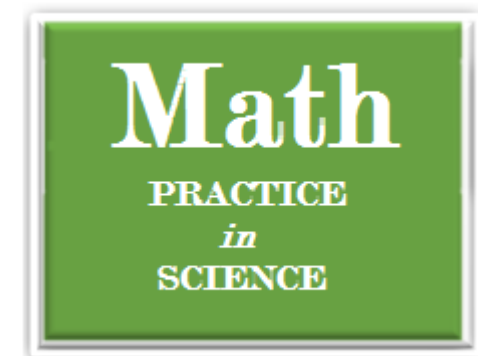
18. $9 \overline{).315}$

19. $3 \overline{).267}$

20. $12 \overline{)1.344}$

056 Math Practice

Dividing by Decimals



Dividing by a decimal follows the same general rules of dividing with whole numbers. However, you must be careful when you place a decimal point in the quotient. Follow these steps.

Example: Divide 4.96 by 0.8.

Step 1: Move the decimal point in the divisor to the right.

Step 2: Move the decimal point in the dividend to the right the same number of places.

Step 3: Divide. Place a decimal point in quotient directly above the new place in the dividend.

$$\begin{array}{r}
 \text{divisor} \rightarrow 0.8 \overline{)4.96} \leftarrow \text{dividend} \\
 8 \overline{)4.96} \\
 48 \\
 16 \\
 16 \\
 \hline
 6.2 \leftarrow \text{quotient} \\
 8 \overline{)49.6} \\
 \underline{48} \\
 16 \\
 \underline{16} \\
 0
 \end{array}$$

**Find the quotients for these division problems.
Each quotient will end on or before the thousandths place.**

1. $.9 \overline{)1.296}$

2. $.4 \overline{).68}$

3. $.8 \overline{)2.08}$

4. $.5 \overline{)1.85}$

5. $3.2 \overline{)9.28}$

6. $.6 \overline{).624}$

7. $1.3 \overline{).0325}$

8. $2.8 \overline{).476}$

9. $3.3 \overline{)16.83}$

10. $2.1 \overline{).0714}$

11. $.8 \overline{).0368}$

12. $.9 \overline{).1215}$

13. $.06 \overline{).0858}$

14. $3.8 \overline{)80.94}$

15. $5.6 \overline{)107.52}$

16. $1.1 \overline{)4.95}$

17. $1.8 \overline{)4.14}$

18. $5.8 \overline{)29.58}$

19. $2.1 \overline{).0042}$

20. $1.5 \overline{).0195}$