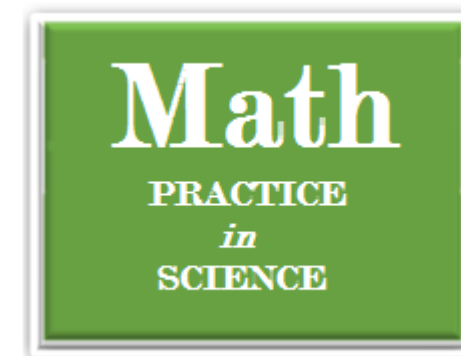


057 Math Practice

Zeros in the Dividend



Sometimes, you have to add zeros to the dividend in order to provide enough places to move the decimal point.

Example: Divide 3.6 by .12.

Step 1:

$$.12 \overline{)3.6}$$

Move decimal point in divisor 2 places.

Step 2:

$$12 \overline{)360.}$$

Move decimal point in dividend 2 places; fill in with a zero.

Step 3:

$$\begin{array}{r} 30. \\ 12 \overline{)360.} \\ \underline{36} \\ 00 \end{array}$$

Divide and place decimal point in quotient.

Divide. Each quotient will end on or before the thousandths place.

1. $.03 \overline{)9}$

2. $.02 \overline{)8}$

3. $.04 \overline{)8.4}$

4. $.09 \overline{)8.1}$

5. $.06 \overline{)7.2}$

6. $.02 \overline{)12.8}$

7. $.04 \overline{)84.8}$

8. $.03 \overline{)12.9}$

9. $.05 \overline{)25.5}$

10. $.07 \overline{)56.7}$

11. $.09 \overline{)81.9}$

12. $.02 \overline{)24.6}$

13. $.05 \overline{)86.5}$

14. $.06 \overline{)13.2}$

15. $.07 \overline{)24.5}$

16. $.07 \overline{)85.4}$

17. $.13 \overline{)27.3}$

18. $.12 \overline{)27.6}$

19. $.15 \overline{)49.5}$

20. $.11 \overline{)23.1}$

21. $.31 \overline{)99.2}$

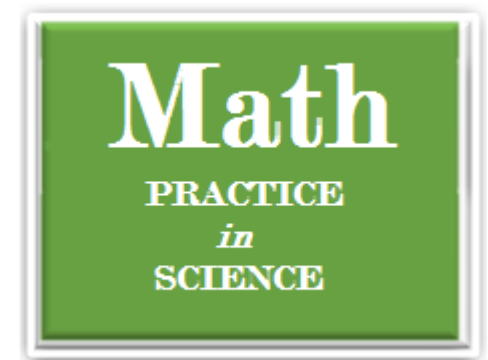
22. $.32 \overline{)67.2}$

23. $.06 \overline{)97.2}$

24. $.63 \overline{)151.2}$

058 Math Practice

Powers of Ten



Multiplying or dividing by 10 is simple. You can do it just by moving the decimal point. Even if you are working with powers of 10 (hundreds, thousands, ten thousands, etc.), the same rule can still be used.

When you find a zero in the multiplier, you can move the decimal point in the multiplicand to find the answer. Move the decimal point to the right. When you find a zero in the divisor, you can move the decimal point in the dividend to find the answer. Move the decimal point to the left.

Examples:

24.8	x	10	=	248.0
2.48	x	100	=	248.00
.248	x	1000	=	248.000
multiplicand		multiplier		

348000.	÷	100	=	3480
34800.	÷	10	=	3480
dividend		divisor		

Rules:

Count the zeros in the multiplier. Move the decimal point in the multiplicand one place to the right for each zero to find the answer.

Rules:

Count the zeros in the divisor. Move the decimal point in the dividend one place to the left for each zero to find the answer.

Multiply by these powers of 10.

1. $263 \times 10 =$ _____

2. $829 \times 100 =$ _____

3. $39 \times 1,000 =$ _____

4. $6,213 \times 100 =$ _____

5. $4,120 \times 10 =$ _____

6. $26.5 \times 100 =$ _____

7. $232 \times 100 =$ _____

8. $20 \times 100 =$ _____

9. $9,111 \times 10 =$ _____

10. $401 \times 10 =$ _____

Divide by these powers of 10.

11. $3,800 \div 10 =$ _____

12. $680 \div 10 =$ _____

13. $2,900 \div 100 =$ _____

14. $79,000 \div 10 =$ _____

15. $12,000 \div 10 =$ _____

16. $30,000 \div 10 =$ _____

17. $54,000 \div 1,000 =$ _____

18. $390 \div 10 =$ _____

19. $234,000,000 \div 100,000 =$ _____

20. $100,000 \div 1,000 =$ _____