


*MasterMath*

# NUMBER SENSE

Dividing Decimals



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Dividing Decimals

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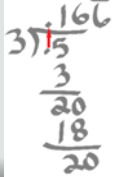
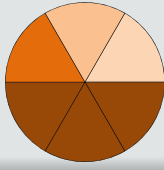
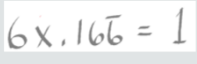
Dividing a Decimal by a Whole Number



.5 pie



5 pie ÷ 3


$$\begin{array}{r} 3 \overline{) 5.6\bar{6}} \\ \underline{3} \phantom{.} \\ 20 \\ \underline{18} \\ 20 \end{array}$$


$6 \times 1.6\bar{6} = 1$

Dividing Decimals

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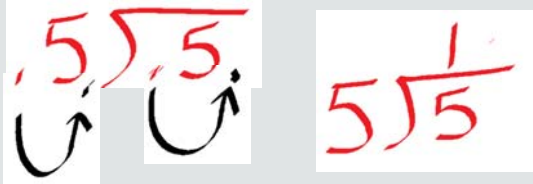
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**Dividing a Decimal by a Decimal**

$.5 \div .5$   
 $.5 \div .5 = .5 \div \frac{1}{2} = .5 \times 2 = 1$



Dividing Deci

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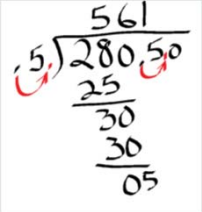
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**Dividing a Decimal by a Decimal**



Lets say your school has a dance, sells tickets for \$.50, and sells \$280.50 worth of tickets. How many tickets were sold?



Dividing Deci

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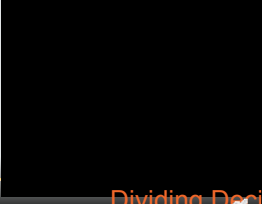
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**You try it!**

$2.6 \div 4$



Dividing Deci

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**You try it!**

$$2.6 \div 4$$

$$\begin{array}{r} .65 \\ 4 \overline{) 2.6} \\ \underline{24} \\ 20 \end{array}$$

Dividing Decimals

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**You try it!**

$$21.8 \div 4.2$$

Dividing Decimals

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**You try it!**

$$21.8 \div 4.2$$

$$\begin{array}{r} 5.19 \\ 4.2 \overline{) 21.8} \\ \underline{21.0} \\ 80 \\ \underline{42} \\ 380 \\ \underline{378} \\ 20 \end{array}$$

Dividing Decimals

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**You try it!**

Tammy's Tee Shirts has a sale. Buy 3 tee shirts for \$19.50, and get the 4<sup>th</sup> tee shirt for free. What is the cost per tee shirt?

Dividing Decimals

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**You try it!**

Tammy's Tee Shirts has a sale. Buy 3 tee shirts for \$19.50, and get the 4<sup>th</sup> tee shirt for free. What is the cost per tee shirt?

$$\begin{array}{r} 4.875 \\ 4 \overline{)19.50} \\ \underline{16} \phantom{00} \\ 35 \phantom{00} \\ \underline{32} \phantom{00} \\ 30 \phantom{00} \\ \underline{28} \phantom{00} \\ 20 \phantom{00} \\ \underline{20} \phantom{00} \\ 0 \phantom{00} \end{array}$$

Dividing Decimals

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**You try it!**

You have 5.6 gigabytes available on your camera. Each new picture uses about .45 gigabytes. How many more pictures can you get on your camera?

Dividing Decimals

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**You try it!**

You have 5.6 gigabytes available on your camera. Each new picture uses about .45 gigabytes. How many more pictures can you get on your camera?

$$\begin{array}{r} 12.4 \\ 45 \overline{) 5.60} \\ \underline{45} \phantom{0} \\ 110 \\ \underline{90} \\ 200 \end{array}$$

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**You try it!**

Now, try it on your own. Go to [www.MasterMath.info](http://www.MasterMath.info) download Dividing Decimals from the Worksheets Page, and test your skill.

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