

3-6 Solving equations by multiplying or dividing by decimals

①

Questions/Main Ideas:	Notes:						
Standard	N.S. 1.2 $\times \div$ decimals						
	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Operation</th> <th style="text-align: center;">Inverse</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">\times</td> <td style="text-align: center;">\div</td> </tr> <tr> <td style="text-align: center;">\div</td> <td style="text-align: center;">\times</td> </tr> </tbody> </table>	Operation	Inverse	\times	\div	\div	\times
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\times	\div						
\div	\times						
	<p><u>Ex:</u></p> $\frac{0.9r}{0.9} = \frac{-5.4}{0.9}$ <p style="text-align: right;">← simplify if needed. ← Divide both sides by coefficient</p> $r = -6$						
	<p><u>Try</u></p> $\frac{0.8t}{0.8} = \frac{-1.6}{0.8}$ $t = -2$ <div style="float: right; text-align: right;"> $\frac{-81.81}{-0.9} = \frac{-0.9n}{-0.9}$ $90.9 = n$ </div>						
	using multiplication to undo division						
	$\frac{r}{-6.0} = 0.5$ <p style="text-align: right;">← simplify if needed</p> $\cancel{(-6.0)} \left(\frac{r}{-6.0} \right) = (0.5) \cancel{(-6.0)}$ <p style="text-align: right;">← multiply both sides by -6.0</p> $r = -3$ <p style="text-align: right;">← simplify</p>						
	<p><u>try</u></p> $4.5(-80) = \left(\frac{t}{4.5} \right) 4.5$ $-360 = t$						

Summary:

side note

$$(-80)(4.5) = (-80)(4 + 0.5)$$

$$(-80)(4) + (-80)(0.5)$$

Use distributive property to do mentally. →

$$-320 + -40$$

$$-360$$

Questions/Main Ideas:	Notes:
	<u>Word Problems</u>
① what do we know?	A package cost \$7.70 to mail off. It weighed 5.5 lbs. what was the cost per pound?
② what do we need?	
③ How will my equation look?	$\frac{\$7.70}{5.5} = \frac{5.5p}{5.5}$ ③.
④ Solve	$= p$
	You have a batting average of 0.222 and have been at bat 54 times How many hits do you have.
	$(0.222)(54) = h$ $11.988 = h$ $12 = h$
	PB 3-6
	<u>HW</u> (148-149)
Summary:	12, 16, 20, 28, 30, 33, 36