

## **Dividing Fractions**

At first, dividing fractions may seem very difficult, but remembering just 2 steps is all it takes!

STEP 1: Turn the 2<sup>nd</sup> fraction upside-down STEP 2: Change the '÷' to a 'x'

Using our rules, this becomes  $\frac{1}{2} \times \frac{3}{2}$  We can now solve:  $\frac{1}{2} \times \frac{3}{2} = \frac{1 \times 3}{2 \times 2} = \frac{3}{4}$ 

Reminder: If you need a reminder of how to multiply fractions (... and how to cancel down to make it easier!), see the <u>Multiplying Fractions Worksheet</u>

Now it's your turn: Easy:  $1) \underline{1} \div \underline{1} = \underline{1} \times \underline{2} = \underline{1} \times \underline{2} = \underline{2}$ 5 1 5x1 5 5 2  $2) \underline{1} \div \underline{2} = \underline{1} \times \underline{5} = \underline{1} \times \underline{5} = \underline{5}$ 4 5 4 2 4 x 2 8 Handy 🔀 Hint: Forgotten how to change between mixed  $3) \underline{2} \div \underline{3} = \underline{2} \times \underline{4} = \underline{2} \times \underline{4} = \underline{8}$ fractions and top heavy 3 3 3 x 3 9 3 4 fractions? See the Worksheet! **Tricky:** (Don't forget to cancel down across the "diagonals"!)  $1)3 \div 1 = 3 \times 4 = 3 \times 1 = 3 \times 1 = 3 = 1 \times 2$ 8 4 8<sup>4</sup> 1 2 1 2 x 1 2  $2J \underline{4} \div \underline{2} = \underline{4} \underbrace{\times} \underline{3} = \underline{2} \times \underline{3} = \underline{2 \times 3} = \underline{6} = 1^{1/5}$ 2 5 1 5 5 x 1 5 3 Super Difficult!: (Change to top heavy fractions first!)  $1 ) 1 \frac{1}{2} \div 1 \frac{1}{4} = \frac{3}{2} \div \frac{5}{5} = \frac{3}{2} \frac{x_{4}}{4} = \frac{3}{2} \frac{x}{2} = \frac{3}{2} \frac{x}{2} = \frac{6}{5} = \frac{1}{\frac{1}{5}}$  $\frac{1}{2}$   $\frac{1}{4}$   $\frac{1}{2}$   $\frac{1}{5}$   $\frac{1}{5}$   $\frac{1}{5}$   $\frac{1}{5}$   $\frac{1}{5}$   $\frac{1}{5}$   $\frac{1}{5}$ 2)  $1^{5/7} \div ^{3/14} = \frac{12}{7} \div \frac{3}{14} = \frac{12}{7} \times \frac{14}{3} = \frac{12}{12} \times \frac{2}{3} = \frac{4}{1} \times \frac{2}{1} = \frac{8}{11} = \frac{8}{11}$ © Maths Star 2010 www.mathsstar.com