Dividing Fractions Slides

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What is the answer for each of the following?		 	
6÷3=			
15 ÷ 5 =		 	
32 ÷ 8 =			
	1		
Is it possible to divide a positive number by			
another positive number and get a result that is			
larger than the number being divided (the first			
number)? If so, how?			
	1		
At the end of this module, you should be			
able to divide fractions.			



Think of division like this: 6 ÷ 3 How many 3s fit into

15 ÷ 5 How many 5s fit into 15?

32 ÷ 8 How many 8s fit into

$$6 \div 3 = \frac{\text{How many threes}}{\text{fit into 6?}}$$

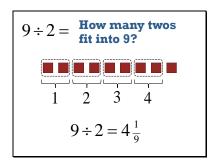
$$1 \qquad 2$$

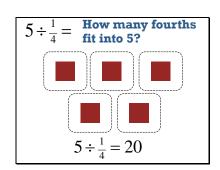
$$6 \div 3 = 2$$

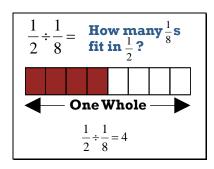
$$15 \div 5 = \frac{\text{How many fives fit}}{\text{into 15?}}$$

$$1 \qquad 2 \qquad 3$$

$$15 \div 5 = 3$$







To divide two fractions, flip the top and bottom numbers after the division sign, then multiply the two top numbers and the two bottom numbers.

To divide two fractions, flip the top and bottom numbers after the division sign...

$$5 \div \frac{1}{4} = \frac{5}{1} \div \frac{1}{4} \longrightarrow \frac{4}{1}$$

...then multiply the two top numbers and the two bottom numbers.

$$\frac{5}{1} \times \frac{4}{1} = \frac{20}{1} = 20$$

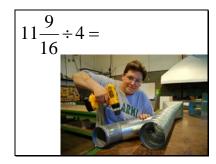


$$15 \div \frac{7}{8} =$$

$$15 \div \frac{7}{8} = \frac{15}{1} \div \frac{7}{8}$$

$$15 \div \frac{7}{8} = \frac{15}{1} \div \frac{7}{8}$$
$$\frac{15}{1} \times \frac{8}{7} = \frac{120}{7} = 17\frac{1}{7}$$





You have a metal bar that

is $23\frac{1}{2}$ ft. long. If you cut it into six even pieces, how long, in feet, would each piece be?



You need pieces of wood that are 4 inches long. How many can you get from a board that is 12' long?



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