Converting Fractions, Decimals and Percentages

<u>Fluency</u>
Complete the table using your knowledge of converting fractions, decimals and percentages.

Challenge: can you simplify the fractions that you find?

Fractions	Decimals	Percentages
3/4		
	0.4	
3/8		
		47.5%
	0.12	
		0.9%
	3.61	

<u>Reasoning</u>
1. Put the following in ascending order:

7/8   88%   0.87   14/17   87.6%

2. Without converting, explain why 6/11 is bigger than 1/2.

_____
_____
_____
_____
_____

Match the equivalents:
0.5	0.8
4/5	3/5
0.04	0.2
20%	40%
2/5	1/2
0.6	0.08
8%	4%

Problem solving

1. Adam scores 7/18 on a test, Mike scored 40%. Who scored highest?

2. Colin, Adam and Mike divide a box of chocolates. Colin took 7 of the 20 chocolates, Adam took 40%. What percentage is left for Mike?

3. Mike cut out 1.75 metres off a 5 metre length of ribbon. As a percentage, how much fabric did Mike cut off?

4. A video game is priced at £50. There is a sale and the price is reduced by 20%. There is another sale soon after where the price of the game is reduced again by 1/8. What is the new price of the game after both sales?

5. There are 15.5 metres of wooden planks. Ali takes 2.3 metres of it whilst Tom takes 60%. How much is left over?