0-6: The Percent Proportion

Ex #1: Please complete the table, by either filling in the missing equivalent fraction, or the missing equivalent percentage. Always be sure to simplify your fractions.

The first row is a given sample.

Fraction	Percentage
$\dfrac{1}{2}$	50%
	20%
$\dfrac{41}{100}$	
	42%
$\dfrac{27}{50}$	
	10%
1	
	1%
$\dfrac{1}{4}$	
	350%
$\dfrac{3}{5}$	
	84%
$\dfrac{2}{40}$	
$\dfrac{3}{8}$	

Ex #2: Please evaluate the following.

(a)   What is 20% of 40?

(b)   What is 15% of 40?

(c)   18 is what percent of 60?

(d)   40% of what number is 42?

Ex #3: My neighbor claims to be able to make 90% of her free throws in basketball. So if I challenge her to take 30 shots, by her non-arrogant claim, how many should she be able to hit?

Ex #4: Suppose that when your friend Chris sees his test score, he panics. He says, "I really needed at least an 80% of this test, but I only got a 68 out of 80!" What would your response be to Chris?

(Remember, you're his friend. So you must help him calculate his percentage, then either confirm or refute his initial reaction, without judgement.)

Ex #5: If a parent is 50 years old, and a child is 20 years old, the parent is what percent of the child's age?