Math 1201 Review		ANSWER KEY Sections 3.1, 3.2, 4.1		3.1, 3.2, 4.1, 4.2, 4.3, 4.4
1. Write each number as a product of its prime factors.				
a)	10 2 x 5	b) 45	5 x 3 x 3	c) 522
				2 x 3 ² x 29
2a)	a) Find the LCM of 2 and 9.		b) Find the LCM of 28, 42 and 63.	
	LCM = 18		LCM = 252	
3a)	Find the GCF of 18 a	and 36.	b) Find the GC	CF of 120 and 90.
	GCF = 18		GCF =	= 30

4. Hot dog wieners come in packages of 10 and hot dog buns come in packages of 12. How many packages of each do you need to buy to have the same amount of each? Do you use GCF or LCM? Show workings.

LCM. Buy 6 packages of hot dog wieners and 5 packages of buns to have 60 of each.

5. There are 16 male students and 20 female students in a grade 10 math class. The teacher wants to divide the class into groups with the same number of males and same number of females in each group. What is the greatest number of groups the teacher can make? Do you use GCF or LCM? Show workings.



- 8a) Determine the square root of 484.
- b) Determine the cube root of 512.



- $\sqrt[3]{512} = 8$
- 9. A cube has a volume of 2197 m³. Its surface area is to be painted. Each can of paint covers about 40 m². How many cans of paint are needed? Show workings.

26 cans of paint are needed.

10. Put the following numbers in the correct place in the Venn Diagram.



 $-1, 0, 3, \sqrt{47}, \frac{4}{7}, \pi, -11.5, \frac{\sqrt{4}}{\sqrt{16}}, \frac{-5}{11}, \sqrt[3]{25}$

- 11. Order the following irrational numbers from least to greatest.
 - $\sqrt[3]{30}$, $\sqrt{17}$, $\sqrt[4]{90}$, $\sqrt{50}$, $\sqrt[3]{-7}$

$$\sqrt[3]{-7}$$
, $\sqrt[4]{90}$, $\sqrt[3]{30}$, $\sqrt{17}$, $\sqrt{50}$

12. Write each radical in simplest mixed radical form.

