1. a. What is the greatest common *factor* of 12 and 16? _____

b. Give a different common *factor* of 12 and 16.

c. What is the least common *multiple* of 6 and 10? _____

d. Give an additional common *multiple* of 6 and 10.

2. Jack has basketball practice every three days. He babysits his younger brother every four days.

a. How many times during a 30-day month will Jack have a conflict between basketball and babysitting?

b. How many days into the month will this happen?

- 3. <u>MULTIPLE CHOICE: CHOOSE THE CORRECT ANSWER BELOW.</u> A red bus leaves a theme park every 24 minutes and a blue bus leaves the park every 20 minutes. They both leave the park at noon. When is the next time that both buses will leave the park?
 - **A.** 12:48 p.m.
 - **B.** 1:20 p.m.
 - **C.** 1:34 p.m.
 - **D.** 1:40 p.m.
 - **E.** 2:00 p.m.

4. A prime number has exactly _____ factors: _____ and itself.

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- **5.** A composite number has ______ or more factors.
- 6. Place the numbers below in the correct box.

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	10	77	19	31	5	80	52	41	33	8	2	
Prime							Composite					

7. Using the numbers provided below, fill in each space to complete the statement. Use each number ONLY ONCE.



- a. Greatest common factor of 4 and 12:_____; least common multiple of 4 and 12:_____
- b. Greatest common factor of 16 and 24: _____; least common multiple of 16 and 24: _____
- c. Greatest common factor of 10 and 60: _____; least common multiple of 10 and 60: _____
- d. Greatest common factor of 8 and 30: _____; least common multiple of 8 and 30: _____

For #8-15, tell whether the second number is a multiple of the first. (Say YES or NO.)

8. 2; 71	9. 1; 18	10. 3; 81	11. 4; 74	
12. 9; 117	13. 8; 176	14. 13; 60	15. 17; 68	

16. For parts a-d below, list ALL factors, then circle the Greatest Common Factor (GCF) for each pair.

a. 9 and 24

b. 25 and 40

c. 11 and 17

d. 8 and 12

17. For parts **a-d** below, list the first 6 multiples of each number, then circle the least common Multiple (LCM) for each pair.

a. 9 and 12

b. 11 and 6

c. 25 and 10

d. 15 and 20