

Greatest Common Factor (G C F)

number	Factors	Common Factors	GCF	number	Factors	Common Factors	GCF
1. 6				6. 26			
12				39			
2. 18				7. 30			
27				75			
3. 16				8. 36			
20				60			
4. 15				9. 12			
18				32			
5. 16				10. 27			
24				36			

Use another way to find greatest common factor (G C F)

- ✓1. 10, 20    ✓2. 21, 72    ✓3. 20, 25    ✓4. 32, 20    5. 10, 48    6. 18, 48    7. 48, 72  
 8. 50, 20    9. 21, 64    10. 64, 32    11. 54, 72    12. 24, 56    13. 18, 27    14. 32, 20  
 15. 12, 18    16. 21, 72    17. 72, 32    18. 48, 72    19. 64, 32    20. 21, 64    21. 54, 45  
 22. 54, 72    23. 45, 27    24. 36, 72    25. 18, 54    26. 36, 54    27. 27, 36    28. 12, 52  
 29. 12, 24    30. 21, 42    31. 16, 48    32. 24, 72    33. 64, 48    34. 21, 64    35. 54, 72

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

Ture or false? Write T or F.

37. Every number has 1 as a factor. \_\_\_\_\_  
 38. 3 is a factor of every odd number. \_\_\_\_\_  
 39. Every number greater than 1 has at least two different factor. \_\_\_\_\_  
 40. Every even number greater than 1 has 2 as a factor \_\_\_\_\_  
 41. Any two numbers have 1 as a common factor. \_\_\_\_\_  
 42. The only common factors of 12, 15, and 18 are 1 and 3. \_\_\_\_\_

Exercise 13A--3

Divide (1-d) Quotients

✓  $\overline{12)45}$

✓  $\overline{25)82}$

✓  $\overline{34)92}$

✓  $\overline{42)126}$

✓  $\overline{54)284}$

✓  $\overline{86)445}$

1.  $\overline{24)72}$

2.  $\overline{36)90}$

3.  $\overline{25)132}$

4.  $\overline{54)378}$

5.  $\overline{84)345}$

6.  $\overline{62)260}$

7.  $\overline{25)75}$

8.  $\overline{42)90}$

9.  $\overline{32)96}$

10.  $\overline{54)225}$

11.  $\overline{64)468}$

12.  $\overline{43)225}$

13.  $\overline{23)92}$

14.  $\overline{35)85}$

15.  $\overline{38)82}$

16.  $\overline{46)356}$

17.  $\overline{45)280}$

18.  $\overline{36)245}$

19.  $\overline{18)84}$

20.  $\overline{28)68}$

21.  $\overline{12)96}$

22.  $\overline{27)126}$

23.  $\overline{52)260}$

24.  $\overline{26)145}$

25.  $\overline{22)90}$

26.  $\overline{34)85}$

27.  $\overline{39)72}$

28.  $\overline{44)253}$

29.  $\overline{42)266}$

30.  $\overline{34)272}$

# Exercise 13D - 6

## Range, Mode, and Median

Geography The year 2000 is the first time that 10 cities will have populations of 14,000,000 or more. Here is a stem-and-leaf plot showing the populations in **millions**.

Stem	Leaf
3	0
2	8 5 2
1	5 5 4 4 4 4

1. The least population shown in the stem-and-leaf plot is 14 million. What is the greatest population?
2. What is the range of the populations listed?
3. New York and Bombay, India will have the median population in 2000. What is the median?
4. What is the mode of the populations listed?
5. Buenos Aires, Argentina and Manila, Philippines each will have a population of 13 million in 2000. If these populations are added to the plot, what will be the median? the range? the mode?

- 1.
- 2.
- 3.
- 4.
5. Range  
Median  
Modes

This is a listing of the prices of several video games.

**\$19   \$24   \$39   \$42   \$47   \$49   \$49   \$55   \$65**

6. What is the price range of these video games?
7. What is the mode?
8. What is the median price?
9. If the highest priced game is eliminated from the list what would be the median? the range? the mode?
10. I am thinking of 4 numbers between 1 and 6. The range, mode and median of these numbers are all 3. Give the 4 numbers.

- 6.
- 7.
- 8.
9. Range  
Median  
Modes
- 10.

11. The table shows the number of minutes people stayed at Andrea's Restaurant. Use the data to plot a stem-and-leaf plot below (**Small to Large**)

22	35	41	45	28	60
32	55	32	45	36	48
25	30	36	65	25	28
26	24	40	30	24	50

Stem	Leaf

12. Do you expect the median to be in stem 5?
13. If no one stayed for more than 50 minutes, how would this affect the range? the median? the modes?

- 12
13. Range  
Median  
Modes

# Exercise 13D – 13

## Reading a Schedule

Trains from Madison to Hamilton		
Leaves Madison	Arrives Hamilton	Train Runs
6:22 A.M.	7:00 A.M.	Daily except Saturday and Sunday
7:20 A.M.	7:56 A.M.	Daily except Saturday and Sunday
7:50 A.M.	8:30 A.M.	Saturday and Sunday only
8:10 A.M.	8:48 A.M.	Daily
8:40 A.M.	9:20 A.M.	Daily except Saturday and Sunday
10:20 A.M.	11:00 A.M.	Saturday only
11:49 A.M.	12:30 P.M.	Daily except Sunday
2:30 P.M.	3:00 P.M.	Sunday only
4:19 P.M.	5:00 P.M.	Daily except Saturday and Sunday
5:05 P.M.	5:42 P.M.	Daily except Saturday

**Use the schedule to answer the questions.**

1. Mrs. Karas wants to go to Hamilton on Saturday. Which train must she take to arrive by 11:00 A.M.?
2. Mr. Turner is taking his class to see a play in Hamilton on Wednesday. The play begins at 3:00 P.M. Which train should they take from Madison?
3. Lee Anne takes the 8:40 A.M. train from Madison. At what time should she arrive in Hamilton?
4. Thelma wants to be in Hamilton by 5:30 P.M. on Sunday. What is the latest train she can take from Madison?
5. How many trains leave Madison for Hamilton on Sunday afternoons?
6. How many trains go from Madison to Hamilton on Saturday mornings?
7. How long does it take the 10:20 A.M. train to go from Madison to Hamilton?
8. Fran will take the first train leaving Madison on Sunday. At what time will she arrive in Hamilton?
9. On Tuesday Alex arrives at the Madison Station at 8:15 A.M. How long does he have to wait for the next train to Hamilton?
10. Which train leaves Madison in the morning and arrives in Hamilton in the afternoon?
11. The 8:10 A.M. train is 11 minutes late. At what time should it now arrive in Hamilton?
12. Tyrone is taking the 2:30 P.M. train from Madison to Hamilton. On what day of the week is he traveling?
13. Miss Livingston rides the 5:05 P.M. train each week day. What is the total number of minutes she spends riding this train in one week?
14. Do all the Saturday trains shown on the schedule take the same amount of time to go from Madison to Hamilton?

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.

# CHALLENGE

Can you meet this challenge?

Complete the multiplication table grid.

(Hint: Begin by determining the numbers in the first row and column; then fill in the rest of the boxes.)

<b>X</b>												
				32								16
		55				132						
	9				27							
								48		36		
	7								49			
		20	44									
				8		20						
							144			108		
						9					18	
									40			10
							100			90		
			11									
								7				

67 x 5 =

23 x 4 =

36 x 9 =

83 x 4 =

86 x 4 =

76 x 4 =

93 x 5 =

74 x 5 =

87 x 6 =

75 x 9 =

77 x 4 =

48 x 5 =

45 x 3 =

64 x 8 =

52 x 7 =

69 x 8 =

83 x 8 =

72 x 6 =

75 x 6 =

74 x 7 =

63 x 7 =

49 x 8 =

76 x 4 =

63 x 6 =

86 x 4 =

86 x 4 =

64 x 5 =

97 x 5 =

78 x 9 =

63 x 5 =

87 x 4 =

48 x 6 =

95 x 3 =

54 x 8 =

42 x 7 =

67 x 3 =

84 x 8 =

75 x 6 =

56 x 6 =

94 x 6 =

65 x 7 =

67 x 8 =

89 x 8 =

89 x 4 =

76 x 4 =

68 x 4 =

64 x 5 =

48 x 4 =

73 x 9 =

74 x 5 =

59 x 5 =

67 x 5 =

88 x 9 =

64 x 5 =

47 x 4 =

49 x 6 =

97 x 3 =

84 x 8 =