Practice Set 23

SRB 71, 253

Complete the "What's My Rule?" tables and rule box.

1.

Rule
out = in * 4

in	out
60	240
16	
	340
11	
	142

2.

Rule
0.3 * in = out

in	out
30	9
	0.15
105	
393	
705	

3.

Rule
in − 175 = out

in	out
600	
112	
	35
10	
	−82

4.

Rule

in	out
8	16
14	28
	45
35	
40.2	80.4

Rename each mixed number as a fraction.

5. $6\frac{1}{5}$ _____ **6.** $3\frac{3}{8}$ _____ **7.** $4\frac{1}{2}$ _____ **8.** $1\frac{16}{24}$ _____

9. $10\frac{12}{13}$ _____ **10.** $5\frac{2}{5}$ _____ **11.** $7\frac{2}{9}$ _____ **12.** $24\frac{2}{3}$ _____

13. $10\frac{2}{5}$ _____ **14.** $4\frac{6}{7}$ _____ **15.** $21\frac{3}{5}$ _____ **16.** $14\frac{1}{6}$ _____

17. $18\frac{1}{9}$ _____ **18.** $9\frac{1}{3}$ _____ **19.** $11\frac{1}{8}$ _____ **20.** $3\frac{14}{15}$ _____

Rename each fraction as a whole or mixed number.

21. $\frac{47}{8}$ _____ **22.** $\frac{102}{50}$ _____ **23.** $\frac{18}{4}$ _____ **24.** $\frac{51}{17}$ _____

25. $\frac{111}{40}$ _____ **26.** $\frac{1{,}000}{525}$ _____ **27.** $\frac{84}{6}$ _____ **28.** $\frac{16}{3}$ _____

Practice Set 23 *continued*

SRB 12 37 136 137

Estimate each product. Write a number sentence to show how you estimated.

29. 12.3 * 5.6 _____

30. 1.35 * 27.9 _____

31. 261.95 * 32.8 _____

32. 2.39 * 682 _____

33. 86.74 * 4.18 _____

34. 126.9 * 4.56 _____

35. 7.893 * 12.008 _____

36. 981 * 1.73 _____

Answer the following questions.

37. Circle the prime factorization of 24.

2 * 3 * 5 2 * 2 * 2 * 3 2 * 12 2 * 2 * 3 * 3

38. What are the prime factors for 105? _____

39. What number is represented by the prime factors 3 * 5 * 5 * 13?

_____

Use the following list of numbers to answer the questions:

10, 8.5, 11, 9, 10.5, 10.5, 7, 13, 10.5

40. What is the range? _____

41. What is the mode? _____

42. What is the median? _____

43. What is the mean? _____

44. **Writing/Reasoning** If you do not count the highest and lowest numbers, how does that affect the mean? Do you think this would be a *more* or *less* accurate representation of the numbers? Explain.

_____

_____

_____