Name _____ Date _____ Class _____

LESSON 4-1

Practice C

Divisibility

Tell whether each number is divisible by 2, 3, 4, 5, 6, 9, and 10.

4 **1.** 1,524 _____

4 **2.** 1,000 _____

3 **3.** 4,455 _____

4+ **4.** 2,160 _____

3 **5.** 3,174 _____

2 **6.** 8,433 _____

2 **7.** 5,745 _____

4 **8.** 6,200 _____

4 **9.** 13,000 _____

Write all the prime numbers between each set of numbers.

4 **10.** 1–10 _____

2 **11.** 21–30 _____

3 **12.** 35–45 _____

2 **13.** 50–60 _____

3 **14.** 65–75 _____

4 **15.** 75–100 _____

Replace each question mark with a digit that will make the number divisible by 9. Prove it.

16. 35**?** _____

17. 2,68**?** _____

18. 7**?**4 _____

19. 53,**?**69 _____

20. Three brothers bought a pack of 24 baseball cards to share. Can they each get the same number of cards? How do you know?

show work.

_____

21. Five friends decide to order a pizza. If the pizza is cut into 8 slices, will they each be able to get the same number of slices without any pizza left over? How do you know?

_____

Name _____ Date _____ Class _____

LESSON 4-2

Practice B

Factors and Prime Factorization

List all of the factors of each number.

1. 15

_____

_____

2. 24

_____

_____

3. 33

_____

_____

4. 72

_____

_____

5. 48

_____

_____

6. 95

_____

_____

7. 66

_____

_____

8. 87

_____

_____

9. 36

_____

_____

Write the prime factorization of each number.

10. 44

_____

11. 56

_____

12. 42

_____

13. 39

_____

14. 36

_____

15. 125

_____

16. 85

_____

17. 100

_____

18. 32

_____

19. James has an assigned seat for his flight to Denver. The seats on the plane are numbered 1–49. James's seat number is an odd number greater than 10 that is factor of 100. What is his seat number for the flight?

_____

20. Linda writes the prime factorization of 40 as $2 \cdot 2 \cdot 2 \cdot 5$ on the board. Phil writes the prime factorization of 40 as $2^3 \cdot 5$. Who is correct?

_____

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Name_____

Find Prime Factorization

Date_____ Period____

1) 30

2) 22

3) 28

4) 16

5) 60

6) 87

7) 68

8) 99

9) 85

10) 72

11) 96

12) 74

13) 86

14) 75

Write the prime-power factorization of each.

15) 48

16) 35

17) 46

18) 40

19) 100

20) 66

21) 75

22) 72

23) 65

24) 81

25) 80

26) 54

27) 972

28) 660