pg. 7-9 #1-7, 18, 21, 29-34

- 1. addition
- 2. multiplication
- 3. division
- 4. subtraction
- 5. addition
- 6. subtraction
- 7. a. dividend
 - **b.** quotient
 - c. divisor
- **18.** 3108
- **21.** 31
- 29. multiplication
- **30.** subtraction
- 31. division
- **32.** multiplication
- 33. addition
- 34. division

pg. 14-15 #5-9 odd, 14, 15, 19, *36

- **5.** 13²
- **7.** 2⁵
- **9.** 8⁴
- **14.** 25
- **15.** 64
- **19.** 65,536
- **36. a.** 9 by 9 tile arrangement, 10 by 10 tile arrangement, or 11 by 11 tile arrangement
 - **b.** in the 9 by 9 arrangement: 44 tiles; in the 10 by 10 arrangement: 25 tiles; in the 11 by 11 arrangement: 4 tiles

pg. 20-21 #7, 8, 9, 11, 18, 22, 31, *21

- **7.** 5
- **8.** 60
- **9.** 24
- **11.** 88
- **18.** 17
- **21.** 47
- **22.** 81
- **31.** \$23; Add the prices of the items you buy. Then subtract the amount of the gift card from the total.

Review 1.1-1.3

Vocabulary. These are the words that you need to know.

SumDifferenceProductQuotientDivisorDividendFactorExponentBaseValuePerfect SquareSquare Root

Evaluate Numerical Expression Order of Operations

Find the value of the expression

3.
$$2208 \div 96$$

4.
$$182 \times 63$$

Determine the operation you would use to solve the problem. **Do not answer the question.**

- 5. The box office sold a total of 1762 tickets. There were 241 balcony seat tickets sold. How many regular seat tickets were sold?

 Subtraction
- 6. The warehouse has 14 aisles. Each aisle has 36 shelves. How many shelves does the warehouse have?

 Multiplication
- 7. The orange grove produced 892 crates of oranges. Each train car holds 112 crates. What is the minimum number of train cars they will need?

Write the product as a power

Find the value of the power.

Determine whether the number is a perfect square. Explain.

11. 12

No. No two whole numbers that are exactly the same will give you the product of 12

12. 36

Yes. The square of 6 will give you 36.

Evaluate the expression. SHOW ALL WORK.

13.
$$14 \div (8-6) + 5$$

14. $2 \times 4 + 3^2$

12

17

15.
$$64 \div 16 + 5 \times 3$$

16. $\frac{121 - 5 + 4(7)}{12}$

19

12

17. Which operation should you perform first when you evaluate the following expression?

$$15-8\div(4-2)\times3$$

- **A.** Subtract 8 from 15.
- B. Subtract 2 from 4.
- **C.** Divide 8 by 4.

D. Multiply 2 by 3.

pg. 28-29 #9, 19, 21, 23, 27, 35, 37, 42, 44

- **9.** 1, 22; 2, 11
- **19.** 2 13
- **21.** $2 \cdot 3 \cdot 3 \cdot 3 \text{ or } 2 \cdot 3^3$
- **23.** 7 11
- **27.** 1575
- **35.** See Taking Math Deeper.
- **37.** cupcake table; Because 60 has more factors than 75, there are more rectangular arrangements.
- **42.** 2395
- **44.** B

pg. 34-35 #7, 11, 13, 15, 19, 21, 23, 39

- **7.** 3
- **11.** 17
- **13.** 15
- **15.** 9
- **19.** 7 is the greatest common *prime* factor. The GCF is $2 \cdot 7 = 14$.
- **21.** 23 packets
- **23.** 7
- **39.** B

pg. 40-41 #7, 9, 12, 15, 21, 23, 25, 32

- **7.** 12
- **9.** 40
- **12.** 63
- **15.** 66
- 21. D; This model represents multiples of 4 and 6 which have an LCM of 12. The other models represent multiples of 3 and 8, 8 and 12, and 6 and 8, which have an LCM of 24.
- **23.** 165
- **25.** 120
- 32. See Taking Math Deeper.

Review and Study Guide

Vocabulary. These are the words that you need to know.

Sum

Difference

Product

Ouotient

Divisor

Dividend

Factor

Exponent

Base

Value

Perfect Square

Evaluate Prime Factorization

Numerical Expression **Greatest Common Factor** Order of Operations Venn Diagram

Factor Pair Multiple

Least Common Multiple

Find the value of the expression

 $364 \div 14$ 3.

 43×59



For #5-6, STATE the operation you would use to solve the problem. Afterwards, solve the problem

5. A shopper gives a cashier \$60 to pay for a \$49 item. How much does the cashier owe the shopper?





A movie theater has 18 rows with 15 seats each. How many seats does the theater have?





A farmer has 450 eggs. Egg cartons hold 12 eggs. How many cartons does the farmer need?

38 cartons. | WHIVE expireMa You can't get 37.5 cartons.

What is the difference between $7 \cdot 3$ and 7^3 ?

7.3=21

73=7.7.7=343

Determine whether the number is a perfect square. Explain.

Evaluate the expression. SHOW ALL WORK.

11.
$$126 - 9 \div 3 \bullet 28$$

$$= 126 - 3 \cdot 28$$

$$= 126 - 84$$

$$= 142$$

12.
$$34 + 2^4 \times 3 - 29$$

12.
$$34 + 2^4 \times 3 - 29$$

$$= 34 + 16 \times 3 - 29$$

$$= 34 + 48 - 29$$

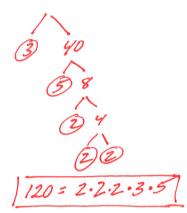
13.
$$\frac{64 \div 16 + 16}{2}$$

$$= \frac{4+16}{z}$$
$$= \frac{20}{z}$$

14.
$$2^3 + 16 \times 3 \div 4 + 6$$

Write the prime factorization of the number

11. 120



12. 38



- What is the prime factorization of the number 90?
 - **A.** 3 2 15

B. 2 • 3 • 5

C. $2^2 \cdot 3 \cdot 5$

- $(2 \cdot 3^2 \cdot 5)$
- 14. A class of 54 students is divided into equal groups for orientation. Each group should have at least 7 students but no more than 10 students. What is the group size?
 - a) What is the group size?

9 students

- b) How many groups are there? 6 groups
- The town administrators separate the 84 houses in a neighborhood into equal groups to do safety inspections. Which of the following groupings is not possible?
 - **A.** Three groups of 26 houses
- **B.** Four groups of 21 houses
- **C.** Six groups of 14 houses
- **D.** Seven groups of 12 houses

Find the GCF of the numbers.

16, 28 16.

17. 18, 60 18. 9, 42, 57

19.	What is the greatest number that divides evenly into both 42 and 81?

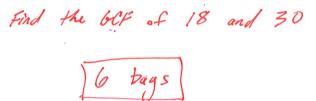
A. 1

(B.)

C. 6

D. 9

20. You are creating identical candy bags using 18 chocolate bars and 30 peanut butter cups. What is the greatest number of bags you can fill using all the candy?



Find the LCM of the numbers.

21. 6, 8

22. 24, 32

23. 3, 16, 20

124

196

1240

24. A northbound bus and a southbound bus are at a bus stop at the same time. The northbound bus returns to the bus stop every 20 minutes and the southbound bus returns to the bus stop every 25 minutes. How long will it be before both buses are the bus stop at the same time again?

A. 50 minutes

B. 100 minutes

C. 200 minutes

D. 500 minutes

25. You have violin lessons every fourth day and singing lessons every fifth day. Today you have both lessons. In how many days will you have both lessons on the same day again?

In 20 days