Final Review. (Answers)

Write the definitions of the following.

1. digit

- 2. whole number
- 3. integer
- 4. even numbers
- 5. odd numbers
- 6. sum
- 7. quotient
- 8. difference
- 9. product
- 10.symbol
- 11.exponent
- 12.number sentence
- 13.a factor
- 14.factoring
- 15.a multiple
- 16.prime number

What do these symbols mean?

17.×	times or multiplied by
18.÷	divided by
19. <	is less than
20.*	times or multiplied by
21.)	divided by or divided into
22. >	is greater than

What is the place value of the 4 in the following numbers?

23.	2,400	hundreds
24.	4,001,238	millions
25.	1,406,987	hundred thousands

Solve

26.	34	81
27.	2 ³	8
28.	15	1

Answer

29.List all possible factors of 45. 1, 3, 5, 9, 15, 45
30.Find the GCF of 15 and 50. 5
31.Find the LCM of 14 and 21. 42

- 32. Which numbers are divisible by 2? 33 14 50 57
- 33. Which numbers are divisible by 3? <u>33</u> 14 50 <u>57</u>
- 34. Which numbers are divisible by 5? 26 11 $\underline{50}$ $\underline{65}$
- 35. Which numbers are divisible by 10? 26 11 50 65
- 36.Find the prime factorization of 900. 2 x 2 x 3 x 3 x 5 x 5

Chapter 3 – Arithmetic (Answers)

1. Show 3 + 4 = 7 using pictures.

Answers will vary.

- 2. Show 6 1 = 5 using pictures.
- 3. Show $3 \times 4 = 12$ using pictures.
- 4. Show $10 \div 2 = 5$ using pictures.
- 5. Show 2 + 6 = 8 using pictures.
- 6. Show 3 1 = 2 using pictures.
- 7. Show $6 \times 2 = 12$ using pictures.
- 8. Show $12 \div 3 = 4$ using pictures.
- 9. Label the number that each arrow is pointing to.

3 ← addend	17 🔶 minuend
+ 9 \leftarrow addend	<u> </u>
12 ← sum	10 ← difference

6 ← factor	18	÷	3	=	6
$\times 4$ factor	♠		♠		♠
24 🛶 product					
divid	lend	divi	isor	quo	tient

Chapter 4 – Place Value (Answers)

Write the number out in words, the way you would say it.

- 1.921,438Nine Hundred Twenty-One Thousand, Four
Hundred Thirty-Eight.
- 2. 243,199,203 Two Hundred Forty-Three Million, One Hundred Ninety-Nine Thousand, Two Hundred Three.
- 3. 506,111,242,000 Five Hundred Six Billion, One Hundred Eleven Million, Two Hundred Forty-Two Thousand.
- 4. 718,640,700,802,411 Seven Hundred Eighteen Trillion, Six Hundred Forty Billion, Seven Hundred Million, Eight Hundred Two Thousand, Four Hundred Eleven.
- 5. 990,400,628,455,817,224 Nine Hundred Ninety Quadrillion, Four Hundred Trillion, Six Hundred Twenty-Eight Billion, Four Hundred Fifty-Five Million, Eight Hundred Seventeen Thousand, Two Hundred Twenty-Four.

Label the periods.

6.	321,452,300	321 Millions Period452 Thousands Period300 Ones Period
7.	421,407,852,311,794,612	421 Quadrillions Period 407 Trillions Period 852 Billions Period 311 Millions Period 794 Thousands Period 612 Ones Period

Label the place values shown.



Ones Hundreds Ten Thousands



Tens Thousands

Hundred thousands

Ten millions Hundred millions

Chapter 6 – Exponents (Answers)

Write as a multiplication problem.

4³ 1. 4 x 4 x 4 8² 8 x 8 2. 16³ 16 x 16 x 16 3. 6² 4. 6 x 6 7⁵ 5. 7 x 7 x 7 x 7 x 7 x 7 2^{6} 2 x 2 x 2 x 2 x 2 x 2 x 2 6.

Write as an exponent.

7.	$2 \times 2 \times 2 \times 2$	2^{4}
8.	3×3	3 ²
9.	$8 \times 8 \times 8 \times 8 \times 8 \times 8$	86
10.	10×10×10	10 ³
11.	6×6×6×6	64
12.	5×5	5 ²

Solve.

13.	2^{2}	4
14.	5 ²	25
15.	3 ³	27
16.	2 ⁵	32
17.	4 ³	64
18.	2^{6}	64
19.	34	81
20.	10^{2}	100
21.	10^{4}	10,000
22.	7^{2}	49

Chapter 7 – Word Problems

Solve.

1. 2.	Ten shared equally with 5 people is2 Eight plus three is11
J.	5 annhas added to Counter is 11 annhas
4.	s apples added to 6 apples is1 iapples.
5.	Eight chess pieces together with eight chess pieces is16
	total chess pieces.
6.	The difference of 8 and 6 is2
7.	The quotient of six and two equals3
8.	The sum of three and 7 is10
9.	4 tables decreased by one table is3 tables.
10.	3 feet shorter than 8 feet is5feet.
11.	Ten times two equals20
12.	Six fewer than twelve is6
13.	One longer than two is3
14.	15 divided by 3 equals5
15.	The product of two and nine is18

Chapter 8 – Factoring and Multiples (Answers)

List all possible factors.

1.	40	1, 2, 4, 5, 8, 10, 20, 40
2.	18	1, 2, 3, 6, 9, 18
3.	27	1, 3, 9, 27
4.	16	1, 2, 4, 8, 16
5.	28	1, 2, 4, 7, 14, 28
6.	42	1, 2, 3, 6, 7, 14, 21, 42

Find the GCF.

7.	15, 75	15
8.	8, 12	4
9.	20, 100	20
10.	14, 49	7
11.	10, 25	5
12.	27, 36	9

Find the LCM

13.	15,75	75
14.	8, 12	24
15.	4, 16	16
16.	21, 14	42
17.	3, 7	21
18.	8,36	72

Chapter 9 – Divisibility Rules (Answers)

Check for divisibility of the following numbers. Put a checkmark in any column that applies.

Number	Divisible by 2?	Divisible by 3?	Divisible by 5?	Divisible by 10?
36	X	X		
47				
300	X	X	X	X
95			X	
111		X		
31,000	X		X	X
78	X	X		
321		Х		
405		Х	X	
611				
88	X			
87		Х		
85			X	
340	X		X	Х
6502	X			
4305		Х	X	
7000	X		X	X
9000	X	X	X	X

Chapter 10 – Prime Factorization (Answers)

Use a factor tree and divisibility rules to find the prime factorization.

1.	28	2 x 2 x 7
2.	20	2 x 2 x 5
3.	54	2 x 3 x 3 x 3
4.	60	2 x 2 x 3 x 5
5.	85	5 x 17
6.	100	2 x 2 x 5 x 5
7.	225	5 x 5 x 9
8.	800	2 x 2 x 2 x 2 x 2 x 5 x 5
9.	99	3 x 3 x 11
10.	84	2 x 2 x 3 x 7
11.	162	2 x 3 x 3 x 3 x 3 x 3
12.	550	2 x 5 x 5 x 11