lesson four - student resource sheet

Lesson Objective: Divide a three-digit or four-digit number by a two-digit number.

Vocabulary Box

dividend — The number to be divided in a division problem. Example: In $12 \div 4 = 3$, 12 is the dividend.

divisor — The number that is divided into the dividend. Example: In $12 \div 4 = 3$, 4 is the divisor.

quotient — The result of a division operation. Example: In $12 \div 4 = 3$, 3 is the quotient.



<u>Directions</u>: Complete the exercises on your own.

- I. Solve each problem. Be sure to show your work.
- 1. 15)945

- 2. 57)4,731
- II. Solve each problem. Be sure to show your work.
 - 1. 47)9,823

2. 28)2,996

III. Divide. Be sure to show your work.



<u>Directions</u>: Fill in the blanks of the table below.

Dividend	Divisor	Quotient
936	12	
4,860		90
	91	35

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Customary Units of Measurement

Length	Capacity
12 in. = 1 ft	2 c = 1 pt
3 ft = 1 yd	2 pt = 1 qt
5,280 ft = 1 mi	4 qt = 1 gal

- 1. How many feet are in 300 inches?
- 2. How many yards are in a mile?
- 3. A large tank can hold 7,200 cups of water. How many gallons is this?

4. A container can hold 30 gallons of water. How many times would you have to fill this container and dump it into the tank in problem 3 if you wanted to fill the tank with water?



- 1. Which is the divisor in $102 \div 2 = 51$?_____
- 2. 35)3,185
- 3. 30)6,240

lesson five - student resource sheet

Lesson Objective: Identify the rules of divisibility by 2, 3, 4, 5, 6, 8, 9, and 10.

Vocabulary Box

factor — One of two or more numbers that are multiplied to get a product.

Example: In $2 \times 4 = 8$, 2 and 4 are factors of 8.

divisible — When one whole number is divided by a second whole number and the remainder is zero. Example: 8 is divisible by 2, and 8 is divisible by 4.



<u>Directions</u>: Work through the following problems with your partner.

I. Copy the rules of divisibility into the table below.

A number is divisible by	If	Example
2		2,314; even; ends in 4
3		558; 5 + 5 + 8 = 18, which is divisible by 3
4		780,416; ends in 16, which is divisible by 4
5		135; ends in 5
6		24; ends in 4, which is divisible by 2, and 2 + 4 = 6, which is divisible by 3
8		7,800; ends in 800, which is divisible by 8
9		162; 1 + 6 + 2 = 9, which is divisible by 9
10		4,210; ends in zero

II.	Tell wheth	ner the statem	nent is true or	false, then explain	in why.	
	1.	789 is divisib	ole by 2			
	2.	459 is divisib	le by 3			
	3.	9,233,981,29	00 is divisible	by 10		
	4.	45,088 is div	isible by 8			<u> </u>
	5.	300 is divisib	ole by 6			
			Summ	ary/Closur	'e	
		ary Words oblem 3 x 5 =	15, write a se	entence with each	ı vocabulary word	
	factor					
	divisible					
_	0			.1.		
		ize What We 1,256 is divisi		ตลy of the following ทน	ımbers.	
	2	3	4	5		
	6	8	9	10		

lesson six - student resource sheet

Lesson Objective: Identify the rules of divisibility by 2, 3, 4, 5, 6, 8, 9, and 10.

Vocabulary Box

factor — One of two or more numbers that are multiplied to get a product. Example: In $2 \times 4 = 8$, 2 and 4 are factors of 8.

divisible — When one whole number is divided by a second whole number and the remainder is zero. Example: 8 is divisible by 2, and 8 is divisible by 4.



Directions: Complete the exercises on your own.

II. Is 495 divisible by:

2 ____ 3 ___ 4 ___

6 ____ 8 ___ 9 ___

I.	For each problem, below, state whether the first number is divisible by the second number, and explain your answer.
	1. 780 by 2
	2. 894 by 5
	3. 9,456,120 by 8
	4. 563 by 9

III. Place an X in the box if the number in the left column is divisible by each number along the top.

	2	3	4	5	6	8	9	10
612								
518,400								



<u>Directions</u> : State whether the following statements are true or false. If they are false, give an example or reason why.
1. All numbers divisible by 3 are odd
2. All numbers divisible by 8 are even
3. All numbers divisible by 9 are odd
4 All numbers divisible by 10 are also divisible by 5

lesson six - student resource sheet

Problem Solving

Your teacher asked you to help her organize the school play. Use the rules of divisibility to answer her questions quickly, and explain how you know.

1.	The band must sit in rows with the same number of students in each row. If there are 90 students in the band, can we put them in rows of 6?
2.	Your teacher decided that each student will get four lines to read. Will I have any lines left over if there are 527 lines that need to be read?
3.	The programs can be ordered in bundles of 2, 3, 4, 5, 6, 8, 9, or 10. If we need 180 programs, does it matter which type of bundle we choose? We don't want extras and we can't be short.
4.	The stage crew of 30 students needs to be divided into equal teams. How many students can we put on each team?



- 1. Is 240 divisible by 6?
- 2. Is 3,698 divisible by 2?
- 3. Can 162 players be divided equally into teams of 9?