Name: _



Lesson 2.1 Estimation

Find each sum or difference. Then use rounding or front-end estimation to check that your answers are reasonable.

1.	649 + 385 =
	Estimated sum:
2.	2,264 + 8,721 =
	Estimated sum:
3.	538 - 269 =
	Estimated difference:
4.	18,460 - 485 =
	Estimated difference:
Find e to che	each product. Then use rounding or front-end estimation eck that your answers are reasonable.
5.	282 × 3 =

Estimated product: _____

6. $119 \times 5 =$ _____

Estimated product: _____

7. 188 × 4 = _____

Estimated product: _____

Name:

Date: _____

Find each quotient. Then use related multiplication facts to check that your answers are reasonable.

8.	76 ÷ 4 =	Estimated quotient:
9.	98 ÷ 2 =	Estimated quotient:
10.	87 ÷ 3 =	Estimated quotient:

Solve. Decide whether to find an estimate or an exact answer.

11. Mr. Jackson has \$8,000. He wants to buy the following items.









microwave

toaster

oven

coffee machine

Complete the table.

Item	Actual Cost	Rounded to the Nearest Hundred
microwave	\$	\$
toaster	\$	\$
oven	\$	\$
coffee machine	\$	\$

Does Mr. Jackson have enough money to pay for all the items? _____

Name: _

Lesson 2.2 Factors

Answer each question. Write Yes or No.

1.	Is 6 a factor of 72? 2.	Is 8 a factor of 84?
3.	Is 7 a factor of 98? 4.	Is 4 a factor of 98?
5.	Is 9 a factor of 108? 6.	Is 5 a factor of 125?
7.	Is 7 a factor of 86? 8.	Is 6 a factor of 96?

Find the common factors of each number pair. Then find the greatest factor.

36

60

- **9.** The factors of 36:
 - $36 = 1 \times$ _____ $36 = 2 \times$ _____ $36 = 3 \times$ _____ $36 = 4 \times$ _____ $36 = 6 \times$ _____

The factors of 36 are ____

- **10.** The factors of 60:
 - 60 = 1 × _____
 - $60 = 2 \times \underline{\qquad}$ $60 = 3 \times \underline{\qquad}$

 - $60 = 4 \times \underline{\qquad}$ $60 = 5 \times \underline{\qquad}$
 - 60 = 6 × _____

The factors of 60 are ____

Name:	Date:
11.	The common factors of 36 and 60 are
12.	The greatest common factor of 36 and 60 is
84	72
13.	Factors of 84: $84 = 1 \times $ $84 = 2 \times $ $84 = 3 \times $ $84 = 4 \times $ $84 = 6 \times $ $84 = 7 \times $ The factors of 84 are
14.	Factors of 72: $72 = 1 \times $ $72 = 2 \times $ $72 = 3 \times $ $72 = 4 \times $ $72 = 6 \times $ $72 = 8 \times $ The factors of 72 are
15.	The common factors of 84 and 72 are
16.	The greatest common factor of 84 and 72 is

Name: _

Look at the numbers. Fill in the blanks.



Complete. Find the prime and composite numbers.



Find the prime and composite numbers in each set.

- **22.** Write the next six prime numbers after 10.
- **23.** Write all the composite numbers between 20 and 30.

Name: .

Lesson 2.3 Multiples

Fill in the blanks.



Find the common multiples of each pair of numbers. Then find the least common multiple.



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6.	The first 18 multiples of 4 are		
7.	The first 8 multiples of 9 are		
8.	The first two common multiples of 4 and 9 are		
9.	The least common multiple of 4 and 9 is		
6	8		
10.	The first 8 multiples of 6 are		
11.	The first 8 multiples of 8 are		
12.	The first two common multiples of 6 and 8 are		
13.	The least common multiple of 6 and 8 is		

Name:	,
-------	---

Date: _____

Find the least common multiple of each pair of numbers.

14. 7 and 8
15. 9 and 12
16. 10 and 12
17. 15 and 20

Use these numbers to fill in the blanks.



18. Write all the numbers that are multiples of 4.

- **19.** Write all the numbers that are multiples of 8.
- **20.** Write all the numbers that are multiples of 9.
- **21.** Find the number that is the least common multiple of 4, 8, and 9.

Name: _

Lesson 2.4 Multiplying Using Models

Solve.

1. A rectangular block represents 316.

316

What do 6 rectangular blocks represent?



2. A rectangular block represents 1,234.



What do 8 rectangular blocks represent?





Name:		Date:
3.	8 × 7 =	
4.	50 × 7 =	
5.	600 × 7 =	
6.	2,000 × 7 =	

Using the results from Exercises 3 to 6, find the product of 2,658 and 7.



Name: _____

Date: _____

















Ν	a	m	e	
---	---	---	---	--

Use the area models to find the product.

18. 24 × 8



Step 1

$$4 \times 8 =$$

Step 2

20 × 8

Step 3

Add the two parts of the product.

_____+ ____ = _____

Hence,

24 × 8 = _____

Name: _

19. 36 × 5



Step 1

 $6 \times 5 =$

Step 2

 $30 \times 5 =$

	3	0
\times		5

Step 3

Add the two parts of the product.

_____ + _____ = _____

Hence,

36 × 5 = _____

Name: .

Date: ___

20. 48 × 9



Step 1

 $8 \times 9 =$

Step 2

 $40 \times 9 =$

4 0 × 9

Step 3

Add the two parts of the product.

_____ + _____ = _____

Hence,

48 × 9 = _____

Date: ____

21. 57 × 2



Step 2

 $50 \times 2 =$

	5	0
\times		2

Step 3

Add the two parts of the product.

_____+ _____ = _____

Hence,

57 × 2 = _____

Put On Your Thinking Cap!

Solve.

1. A number is between 10 and 20. It is also a factor of 24.

What is the number? _____

2. It is a 3-digit number. All the digits are different. The first and second digits are multiples of 3. The first digit is greater than the second digit. The sum of the first two digits is 7 more than the third digit. The number is not a multiple of 5. The third digit is greater than 3.

What is the number? _____

3. Jane's age is a two-digit multiple of 4. Next year, her age will be a multiple of 5. How old is Jane now?

Name:

Solve.

4. Mrs. Garcia watches 16 students cycle home after school. She counts 38 wheels. Some of the students are on bicycles, and the rest are on tricycles. How many students are on bicycles?



5. Michelle has less than 50 baseball cards. If she puts them in packs of 7, she has 5 baseball cards left. If she puts them in packs of 9, she has 6 baseball cards left. How many baseball cards does Michelle have?

```
Date: _
```

- **6.** Susan's birthday is in January.
 - The date has two digits.
 - You say the date when you count by fours.
 - The date is divisible by 6.
 - The sum of the digits is 3.



When is Susan's birthday? _____

- 7. Nathan's birthday is also in January.
 - The date has two digits.
 - The date can only be divided by 1 and by itself.
 - The sum of the digits is 8.

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Name:

Date:

8. Daniel has won \$20 worth of prizes. He can choose from these prizes.



Show the ways in which he can select \$20 worth of prizes. Use \checkmark to show the number of each prize he can choose.

Adventure Books (\$4)	Soft Toys (\$6)	Games (\$8)