Name: .



Worksheet 1 Estimation

Find each sum or difference. Then use rounding to check that your answer is reasonable. Round each number to the nearest 100.

Example 475 + 382 = 475 + 382 =	= ? = <u>857</u> 857 is close to answer is reason	o 900, so the nable.
Number	Rounded to the nearest 100	15 Sa
475	500	
382	400	
Add	900	(7 - 5)
The estimated Is your answer	sum is <u>900</u> . reasonable? <u>Yes</u>	

Name: _

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1. Find 534 + 208.

534 + 208 = _____

Number	Rounded to the nearest 100
534	
208	
Add	

The estimated sum is _____.

Is your answer reasonable? _____

2. Find 836 - 487.

836 - 487 = _____

Number	Rounded to the nearest 100
836	
487	
Subtract	

The estimated difference is _____.

Is your answer reasonable? _____

Date:

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Find each sum or difference. Then use rounding to check that your answer is reasonable. Round each number to the nearest 1,000.

— E>	ample — 1,398 + 4,68 1,398 + 4,68	37 = ? 37 = 6,085 6,085 is close to 6,000, so the answer is reasonable.
	Number	Rounded to the nearest 1,000
	1,398	1,000
	4,687	5,000
	Add	6,000
Is your answer reasonable? <u>Yes</u>		

3. Find 4,772 + 2,409.

4,772 + 2,409 = _____

Number	Rounded to the nearest 1,000
4,772	
2,409	
Add	

Is your answer reasonable? _____

Name: _

Date: _____

4. Find 14,842 - 9,221.

14,842 - 9,221 = _____

Number	Rounded to the nearest 1,000
14,842	
9,221	
Subtract	

Is your answer reasonable? _____

Estimate each sum or difference using front-end estimation.



5. 3,351 + 1,469

6. 9,217 - 2,881

Date:	
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Name: _

Find each sum or difference. Then use front-end estimation to check that your answer is reasonable.

	Example
	478 + 403 =881
	(4)78 + (4)03
	Estimated sum: <u>400</u> + <u>400</u> = <u>800</u>
	Explain: <u>881 is close to 800, so the answer is reasonable.</u>
7.	798 - 465 =
	(7)98 — (4)65
	Estimated difference: – =
	Explain:
8.	2,326 + 3,639 =
	②,326 + ③,639 ↓ ↓
	Estimated sum: + =
	Explain:
9.	5,389 - 2,658 =
	(5),389 — (2),658 ↓ ↓
	Estimated difference: – =

Explain: _____

N	am	e:
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Date: _____
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Find each product. Then use rounding to check that your answer is reasonable.

– Example —— 114 × 3 = <u>342</u> 342 is close to 300, so the answer is reasonable. Rounded to the nearest Number 100×3 $100 \times 3 = 300$ 114 Is the answer reasonable? <u>Yes</u>

10. $326 \times 3 =$ _____

Number	Rounded to the nearest 100 $ imes$ 3

Is the answer reasonable? _____

11. 267 × 2 = _____

Number	Rounded to the nearest 100 $ imes$ 2

Is the answer reasonable? _____

Date:	_
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Name: .

Find each product. Then use front-end estimation to check that your answer is reasonable.

Example —— 79 × 5 = <u>395</u> ⑦9 × 5 The estimated product is <u>350</u>. Exploin: <u>395 is close to 350, so the answer is reasonable</u>.

12. $54 \times 4 =$ _____

		©4 ↓	\times 4
	Estimated product:		_ × 4 =
	Explain:		
13.	112 × 3 =		
		112	× 3
	Estimated product:	v	_ × 3 =
	Explain:		

Name	
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C	a	ŧ	e	:	
_	-	•	~	-	



Find each quotient. Then use related multiplication facts to check that your answer is reasonable.

 $4 \times \underline{ } = \underline{ }$ $4 \times \underline{ } = \underline{ }$ Estimated quotient: $\div 4 = \underline{ }$ The answer is $\underline{ }$ $516 \div 2 = \underline{ }$ $\underline{ } \times \underline{ } = \underline{ }$ Estimated quotient: $\underline{ } \div \underline{ } = \underline{ }$ The answer is $\underline{ } \div \underline{ } = \underline{ }$

Name:		Date:
16.	780 ÷ 5 =	
	× =	=
	× =	=
	Estimated quotient:	_ ÷ =
	The answer is	
Solve.	Decide whether to find an e <i>xample</i> 724 meters of barbed wire is n How much barbed wire is need	estimate or an exact answer. eeded to enclose a park. ed to enclose 4 identical parks?
	724 m \times 4 = 2,896 m 2,896 meters of barbed wire is needed.	An exact answer is needed because the question asks how much barbed wire is needed.

17. Ms. Katy has \$111. She wants to spend \$52 on books, \$33 on fruit, and \$21 on vegetables. Does she have enough money to buy all these things?

Name:	
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18. A bottle contains 784 milliliters of milk. A family drinks 309 milliliters of milk in the morning and the rest of the milk in the afternoon. How much milk do they drink in the afternoon?

19. Caithlin spent \$14.99 on a sweater, \$5.29 on 2 pairs of socks, and \$8.99 on a blouse. About how much money did Caithlin spend in all?

Date:

Name: _

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Worksheet 2 Factors

Write the missing numbers.

	Example
	14 × 3 = <u>42</u>
	42 can be divided exactly by14 and3
1.	21 × 5 =
	can be divided exactly by 21 and
2.	35 × 3 =
	can be divided exactly by and
Writ	the missing numbers.
	Example
	$12 \times 3 = \underline{36}$
	<u>36</u> is a product of 12 and 3. Whole numbers can be
	12 and 3 are factors of <u>36</u> broken into factors .
3.	8 × 12 =
	is a product of 8 and 12.
	and are factors of
4.	26 × 4 =
	is a product of 26 and 4.
	and are factors of

Name:	
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Date	
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Find the quotient. Then write the missing words.



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Date: _____
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Find the factors of each number.



The factors of 54 are _____, ____, ____, ____, ____, ____,

_____, _____, and _____.

-				Date: _		
72 =	×					
=	×					
=	×					
=	×					
=	×					
=	×					
The factors	of 72 are					
The fuctors		,	-,	_,,	,	
,	,,, _	,,	-,,	_,, and		
108 =	,,, _	,,	,	_,, and		
108 =	,,,,,,,,,	,,	-,,	_,, and	;	
108 = =	,,,,,,,,,,	,,	_,,	_,, and		
108 = = =	,, X X X	,,	_,,	_,, and	,	
108 = = = =	,,,,,	,,	_,,	_,, and	,	
108 = 108 = = = =	,,,	,,	_,,	_,, and	,	

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Date: _____
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Divide. Then answer each question.



Name:	
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Find the factors of each pair of numbers. Then circle the common factors.

	Example
	12 and 21
	12: (1), 2, (3), 4, 6, 12
	21: (1), (3), 7, 21
	Which of the circled common factors is the greatest? <u>3</u>
15.	21 and 28
	21:
	28:
	Which of the circled common factors is greatest?
16.	32 and 42
	32:
	42:
	Which of the circled common factors is the greatest?
17.	48 and 72
	48:
	42:

Which of the circled common factors is the greatest? _____

Name: .

Find the greatest common factor of each pair of numbers.



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Name: _

18. 12 and 24



19. 36 and 42



The greatest common factor is _____.

20. 54 and 72

- The greatest common factor is _____.
- **21.** 15 and 42

Answer the questions using these numbers.



— Example -

Which of the numbers have 2 as a factor?

10, 24, 36, and 54

Name:	D	ate:
22.	Which of the numbers have 3 as a factor?	
23.	Which of the numbers have 5 as a factor?	
24.	Which of the numbers have 3 and 5 as factors?	

Find the factors of each number. Then decide whether the number is a prime number.

Example
17 = 1 × 17
The factors of 17 are 1 and 17.
So, 17 is a prime number.

A prime number has only 2 different factors, 1 and itself.

25.	5	26.

27. 11

28. 26

9

Name: .

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Date: _____
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Find the factors of each number. Then decide whether the number is a composite number.

— Example —	
6 = 1 × 6 = 2 × 3 The factors of 6 are 1, 2, 3, and 6.	A composite number has more than 2 different factors.
So, 6 is a composite number.	

29. 20 **30.** 13

31.	63	32.	41

Which numbers in Exercises 29 to 32 are prime numbers?

33. The prime numbers are _____ and _____.

34. Why did you choose those two numbers? Explain your reasoning.

Worksheet 3 Multiples

Find the first eight multiples of each number.



1. 6



The first eight multiples of 6 are _____

2.

8

$$1 \times 8 =$$
 $2 \times 8 =$ $3 \times 8 =$ $4 \times 8 =$ $5 \times 8 =$ $6 \times 8 =$ $7 \times 8 =$ $8 \times 8 =$

The first eight multiples of 8 are _____

Name:

Circle the numbers that are not multiples of the given number.

Example -4: 4, (14), 16, 20, (34), 44 4 is a factor of all the multiples of 4. The numbers 4, 16, 20, and 44 can be divided exactly by 4. So, they are multiples of 4.

- **3.** 3: 12, 15, 18, 21, 23
- **4.** 5: 5, 15, 25, 51, 55
- **5.** 7: 7, 17, 21, 27, 35, 42, 56, 63
- **6.** 9: 18, 36, 39, 45, 47, 49, 54, 63, 72, 79

Check (\checkmark) the correct box. Then write the missing numbers and words.





Reteach 4A 41

Name: _

Circle the common multiples of each pair of numbers. Then write the missing numbers.

	Example			
	3: 3, 6, 9, 12, 15, 18, 21, 24, 27			
	4: 4, 8, 12, 16, 20, 24, 28, 32, 36			
	A common multiple is a multiple that is shared between two or more numbers.			
	The common multiples are <u>12</u> and <u>24</u> .			
	The least common multiple is the common multiple that is less than all the others.			
	The least common multiple is <u>12</u> .			
10.	5: 5, 10, 15, 20, 25, 30, 35, 40, 45			
	7: 7, 14, 21, 28, 35, 42, 49, 56, 63			
The common multiple is				
The least common multiple is				
11.	6: 6, 12, 18, 24, 30, 36, 42, 48, 54			
	8: 8, 16, 24, 32, 40, 48, 56, 64, 72			
	The common multiples are and			
	The least common multiple is			

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Date:

Find the first two common multiples of each pair of numbers. Circle them and then write the least common multiple.

Example —

3 and 7 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42 7: 7, 14, 21, 28, 35, 42, 49 The least common multiple is <u>21</u>.

12. 2 and 5

2:	
5:	
The least common multiple is	

13. 6 and 9

6:			
- · ·			

9: _____

The least common multiple is _____.

Name:

Find the least common multiple of each pair of numbers using division.



 14.
 9 and 18
 15.
 14 and 28

16. 15 and 45

17. 12 and 52

Date: _

Name: .

Worksheet 4 Multiplying Using Models

1. Study the array. Write a multiplication statement from the given diagram.



- **2.** Color dots to show the multiplication statement. Use white dots as 1 one. Cross out those unused dots.
 - **a.** 2 × 15



b. 4 × 19

|--|

Name:

3. Study the diagram. Then write a multiplication statement.



- **4.** Complete to show the multiplication.
 - **a.** $7 \times 14 \rightarrow 7 \times ___= _, 7 \times __= _$ So, $7 \times 14 = __+ __= _$
 - **b.** $5 \times 18 \longrightarrow 10 = ..., \times 8 = ...$ So, $5 \times 18 = ... + ... = ...$
 - **c.** $2 \times 16 \rightarrow 2 \times ___= __, ___ \times 6 = __$ So, $2 \times 16 = ___+ __= __$
 - **d.** $6 \times 15 \longrightarrow 10 = ..., 6 \times ... = ...$ So, $6 \times 15 = ... + ... = ...$



6. Multiply

29

× 8

e.

Name: _____

a.		18	b.		24
	\times	7		×	9

C.		35	d.		47
	\times	6		\times	5