

A Story of Units

## Pleasanton Mathematics Curriculum



### **Grade 2 • MODULE 5**

Addition and Subtraction Within 1,000 with Word Problems to 100

# Homework

Video tutorials: http://embarc.online

Info for parents: http://bit.ly/pusdmath

Version 3

2 GRADE

## **Mathematics Curriculum**



**GRADE 2 • MODULE 5** 

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## **GRADE 2 • MODULE 5**

Addition and Subtraction Within 1,000 with Word Problems to 100

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inume	Date	

- 1. Complete each more or less statement.
  - a. 10 more than 222 is \_\_\_\_\_.
- b. 100 more than 222 is . .
- c. 10 less than 222 is \_\_\_\_\_.
- d. 100 less than 222 is \_\_\_\_\_.
- e. 515 is 10 more than \_\_\_\_\_.
- f. 299 is 100 less than \_\_\_\_\_.
- g. \_\_\_\_\_ is 100 less than 345.
- h. \_\_\_\_\_ is 10 more than 397.
- i. 898 is \_\_\_\_\_ than 998.
- j. 607 is \_\_\_\_\_ than 597.
- k. 10 more than 309 is \_\_\_\_\_.
- l. 309 is \_\_\_\_\_ than 319.
- 2. Complete each regular number pattern.
  - a. 280, 290, \_\_\_\_\_, \_\_\_\_, 330
  - b. 530, 520, 510, \_\_\_\_\_, \_\_\_\_
  - c. 643, 543, \_\_\_\_\_, \_\_\_\_, 143
  - d. 681, 691, \_\_\_\_\_, \_\_\_\_, 731
  - e. 427, \_\_\_\_\_, \_\_\_\_, 387, 377
  - f. \_\_\_\_\_, \_\_\_\_, 788, 778, 768

- 3. Complete each statement.
  - a.  $235 \xrightarrow{+10} \xrightarrow{+100}$
- b. 391 → \_\_\_\_\_ -10
- d.  $311 \xrightarrow{-10}$   $\xrightarrow{-10}$   $\xrightarrow{-10}$   $\xrightarrow{+100}$   $\xrightarrow{+100}$   $\xrightarrow{+10}$
- 4. Solve using the arrow way.
  - a. 376 + 103 = \_\_\_\_\_

- b. 290 + \_\_\_\_ = 400
- c. \_\_\_\_\_+ 712 = 852

Name

Date

- 1. Solve each addition problem using place value strategies. Use the arrow way or mental math, and record your answers. You may use scrap paper if you like.
  - a. 4 hundreds 5 tens + 2 hundreds = \_\_\_\_ hundreds \_\_\_\_ tens

- 2. Solve each subtraction problem using place value strategies. Use the arrow way or mental math, and record your answers. You may use scrap paper if you like.
  - a. 5 hundreds 8 ones 3 hundreds = \_\_\_\_ hundreds \_\_\_\_ tens \_\_\_ ones

- 3. Fill in the blanks to make true number sentences. Use place value strategies, number bonds, or the arrow way to solve.
  - a. 300 more than 215 is \_\_\_\_\_.
  - b. 300 more than \_\_\_\_\_ is 668.
  - c. 500 less than 980 is \_\_\_\_\_.
  - d. \_\_\_\_\_ less than 987 is 487.
  - e. 600 \_\_\_\_\_ than 871 is 271.
  - f. 400 \_\_\_\_\_ than 444 is 844.

1. Solve each set of problems using the arrow way.

a.	
	260 + 200
	260 + 240
	260 + 250
b.	
	320 + 400
	320 + 480
	320 + 490
C.	
	550 + 200
	550 + 250
	550 + 270
d.	
	230 + 400
	230 + 470
	230 + 490

2. Solve using the arrow way or mental math. Use scrap paper if needed.

3. Solve.

e. What is the value of 62 tens? \_\_\_\_\_

Name \_\_\_\_ Date \_\_\_\_

1. Solve using the arrow way.

a. 430 - 200

430 - 230

430 - 240

b.

570 - 300

570 - 370

570 - 390

C.

750 - 400

750 - 450

750 - 480

d.

940 - 330

940 - 360

940 - 480

2. Solve using the arrow way or mental math. Use scrap paper if needed.

α.

b.

C.

d.

3. Solve.

e. What is the value of 28 tens?

f. What is the value of 36 tens?

Name \_\_\_\_

Date \_\_\_\_

1. Solve.

a. 32 tens = \_\_\_\_\_

b. 52 tens = \_\_\_\_\_

c. 19 tens + 11 tens = \_\_\_\_ tens

d. 19 tens + 13 tens = \_\_\_\_ tens

- e. 28 tens + 23 tens = \_\_\_\_\_ tens f. 28 tens + 24 tens = \_\_\_\_ tens
- 2. Add by drawing a number bond to make a hundred. Write the simplified number sentence and solve.

a. 90 + 180 170 10

100 + 170 \_\_ = \_\_\_\_

b. 190 + 460

c. 540 + 280

d. 380 + 430

e. 99 + 141

f. 75 + 299

g. 795 + 156

Date \_\_\_\_\_

1. Draw and label a tape diagram to show how to simplify the problem. Write the new number sentence, and then subtract.

a. 340 – 190 = <u>350 – 200</u> = \_\_\_\_

+ 10	340	
+ 10	190	

b. 420 – 190 = \_\_\_\_\_ = \_\_\_\_

c. 500 – 280 = \_\_\_\_\_=

d. 650 – 280 = \_\_\_\_\_=

e. 740 – 270 = \_\_\_\_=

2. Draw and label a tape diagram to show how to simplify the problem. Write a new number sentence, and then subtract. Check your work using addition.

a. 236 – 99 = <u>237 – 100</u> = \_\_\_\_

	Check:
+ 1 236	
+ 1 99	

b. 372 – 199 =

Check:

c. 442 – 298 = \_\_\_\_=

Check:

d. 718 – 390 = \_\_\_\_=

Check:

Name \_\_\_\_

1. Solve each problem with a written strategy such as a tape diagram, a number bond, the arrow way, the vertical form, or chips on a place value chart.

2. Use the arrow way to complete the number sentences.

f.

a.

3	Solve	667 +	295	usina	two	different	strategies
J.	20106	007	233	using	1 00 0	ulllelelli	311 a regres

a. b.

c.	c. Explain which strategy is easier to use when solving and why.		

4. Circle one of the strategies below, and use the circled strategy to solve 199 + 478.

a.	b. Solve:
arrow way / number bond	

c. Explain why you chose that strategy.

Name Date
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1. Solve the following problems using your place value chart, place value disks, and vertical form. Bundle a ten or hundred, when necessary.

a. 505 + 75	b. 606 + 84
c. 293 + 114	d. 314 + 495
e. 364 + 326	f. 346 + 234
g. 384 + 225	h. 609 + 351

2. Solve using mental math, a simplifying strategy, or place value chart and place value disks.

Name	Date	

1. Solve the following problems using a place value chart, place value disks, and vertical form. Bundle a ten or hundred, when necessary.

a. 205 + 345	b. 365 + 406
c. 446 + 334	d. 466 + 226
e. 537 + 243	f. 358 + 443
g. 753 + 157	h. 663 + 258

2. Solve using mental math, a simplifying strategy, or a place value chart and place value disks.

Name		
1 101110		

Date \_\_\_\_

1. Solve using vertical form, and draw chips on the place value chart. Bundle as needed.

hundreds	tens	ones

	404		~		
n	124	+	260	=	

hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

d. 606 + 294 = \_\_\_\_\_

2. Solve using vertical form, and draw chips on a place value chart. Bundle as needed.

Name		
1 101110		

Solve using vertical form, and draw chips on the place value chart. Bundle as needed.

hundreds	tens	ones

a.	167	+	224	=	
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hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

d. 638 + 298 = \_\_\_\_\_

- 2. Solve using vertical form, and draw chips on a place value chart. Bundle as needed.
  - a. 456 + 378

b. 187 + 567

me	Date	
Solve 435 + 290 using two diff	erent strategies.	
a.	b.	
Explain which strategy would b	e easier and why.	
		<del> </del>

2. Choose the best strategy and solve. Explain why you chose that strategy.

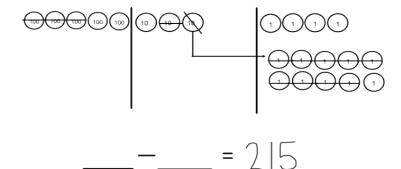
a. 299 + 458	Explanation:
b. 733 + 210	Explanation:
c. 295 + 466	Explanation:
C. 273 + 400	

1. Solve using mental math.

2. Solve using mental math or vertical form with place value disks. Check your work using addition.



3. Complete the number sentence modeled by place value disks.



Name	Date

1. Solve by drawing place value disks on a chart. Then, use addition to check your work.

a. 373 – 180	Solve vertically or mentally:	Check:
b. 463 – 357	Solve vertically or mentally:	Check:
c. 723 – 584	Solve vertically or mentally:	Check:

d. 861 – 673	Solve vertically or mentally:	Check:
e. 898 – 889	Solve vertically or mentally:	Check:

2. If 544 + 366 = 910, then 910 - 544 = 366. Explain why this statement is true using numbers, pictures, or words.

1. Solve by drawing chips on the place value chart. Then, use addition to check your work.

			Solve vertically or mentally:	Check:
hundreds	tens	ones		
I				
b. 742 – 495	•		Solve vertically or mentally:	Check:
hundreds	tens	ones		
c. 657 – 290	)		Solve vertically	Check:
hdaa da	*		or mentally:	
hundreds	tens	ones		

d. 877 – 398			Solve vertically	Check:
hundreds	tens	ones	or mentally:	
e. 941 – 628			Solve vertically or mentally:	Check:
hundreds	tens	ones	,	

- 2. Complete all of the if...then statements. Draw a number bond to represent the related facts.
  - a. If 928 \_\_\_\_ = 519, then 519 + 409 = \_\_\_\_.

b. If 764 - \_\_\_\_ = 391, then \_\_\_\_ + 391 = 764.

Name			

1. Solve vertically or using mental math. Draw chips on the place value chart and unbundle, if needed.

hundreds	tens	ones

h	509 -	371 =	

hundreds	tens	ones

_	607	- 288 =		
(.	O(I) -	- 600 -		

hundreds	tens	ones

d.	800 -	- 608	=	
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hundreds	tens	ones

hundreds	tens	ones

2. Andy said that 599 - 456 is the same as 600 - 457. Write an explanation using pictures, numbers, or words to prove Andy is correct.

1. Solve vertically or using mental math. Draw chips on the place value chart and unbundle, if needed.

hundreds	tens	ones

hundreds	tens	ones

C.	700 –	542	=	

hundreds	tens	ones

d. 800 – 409 = \_\_\_\_\_

hundreds	tens	ones

e. 905 – 606 = \_\_\_\_\_

hundreds	tens	ones

2. Solve 800-567. Then, check your work using addition.

Solution:	Check:

Date \_\_\_\_ Name \_\_\_\_

1. Use the arrow way and counting on to solve.

a.	700 – 462

b. 900 - 232

2. Solve vertically and draw a place value chart and chips. Rename in one step.

a. 907 – 467

b. 803 - 667

3. Choose a strategy to solve and explain why you chose that strategy.

a. 700 - 390

Explanation:

b. 919 - 657	Explanation:

4. Explain why 300-186 is the same as 299-185.

Explanation:	

5. Solve 500 - 278 using the simplifying strategy from Problem 4.

Name	Date
- Adrile	

1. Solve and explain why you chose that strateau.

	explain why you chos	
a. 340+	250 =	Explanation:
b. 490 +	350 =	Explanation:
c. 519 +	342 =	Explanation:



d.	610 + = 784	Explanation:
e.	700 – 456 =	Explanation:
0.	700 100	
f.	904 – 395 =	Explanation:

Name	Date	
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Solve each problem using two different strategies.

1. 456 + 244 = \_\_\_\_\_

a. First Strategy	b. Second Strategy

2. 698 + \_\_\_\_ = 945

a. First Strategy	b. Second Strategy

Circle a strategy to solve and explain why you chose that strategy.

- 3. 257 + 160 = \_\_\_\_\_
- a. Arrow way or vertical form

b. Solve:	c. Explanation:

- 4. 754 597 = \_\_\_\_\_
- a. Number bond or arrow way

b. Solve:	c. Explanation:





Video tutorials: http://bit.ly/eurekapusd Info for parents: http://bit.ly/pusdmath