

A Story of Units[®]

Eureka Math[™]

Grade 2, Module 5

Student File_A

*Contains copy-ready classwork and homework
as well as templates (including cut outs)*

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10 9 8 7 6 5 4 3 2 1

Name _____

Date _____

1. Complete each *more* or *less* statement.

- a. 10 more than 175 is _____. b. 100 more than 175 is _____.
c. 10 less than 175 is _____. d. 100 less than 175 is _____.
e. 319 is 10 more than _____. f. 499 is 100 less than _____.
g. _____ is 100 less than 888. h. _____ is 10 more than 493.
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. 170, 180, 190, _____, _____, _____
b. 420, 410, 400, _____, _____, _____
c. 789, 689, _____, _____, _____, 289
d. 565, 575, _____, _____, _____, 615
e. 724, _____, _____, _____, 684, 674
f. _____, _____, _____, 886, 876, 866

3. Complete each statement.

a. $389 \xrightarrow{+10} \underline{\hspace{2cm}} \xrightarrow{+100} \underline{\hspace{2cm}}$

b. $187 \xrightarrow{-100} \underline{\hspace{2cm}} \xrightarrow{-10} \underline{\hspace{2cm}}$

c. $609 \xrightarrow{-10} \underline{\hspace{2cm}} \xrightarrow{-\underline{\hspace{1cm}}} 499 \xrightarrow{+10} \underline{\hspace{2cm}} \xrightarrow{+\underline{\hspace{1cm}}} 519$

d. $512 \xrightarrow{-10} \underline{\hspace{2cm}} \xrightarrow{-10} \underline{\hspace{2cm}} \xrightarrow{+100} \underline{\hspace{2cm}} \xrightarrow{+100} \underline{\hspace{2cm}} \xrightarrow{+10} \underline{\hspace{2cm}}$

4. Solve using the arrow way.

a. $210 + 130 = \underline{\hspace{2cm}}$

b. $320 + \underline{\hspace{2cm}} = 400$

c. $\underline{\hspace{2cm}} + 515 = 735$

Name _____

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. $235 \xrightarrow{+10} \underline{\hspace{2cm}} \xrightarrow{+100} \underline{\hspace{2cm}}$

b. $391 \xrightarrow{-100} \underline{\hspace{2cm}} \xrightarrow{-10} \underline{\hspace{2cm}}$

c. $417 \xrightarrow{-10} \underline{\hspace{2cm}} \xrightarrow{-100} \underline{\hspace{2cm}} \xrightarrow{-100} 297$

d. $311 \xrightarrow{-10} \underline{\hspace{2cm}} \xrightarrow{-10} \underline{\hspace{2cm}} \xrightarrow{+100} \underline{\hspace{2cm}} \xrightarrow{+100} \underline{\hspace{2cm}} \xrightarrow{+10} \underline{\hspace{2cm}}$

4. Solve using the arrow way.

a. $370 + 110 = \underline{\hspace{2cm}}$

b. $290 + \underline{\hspace{2cm}} = 400$

c. $\underline{\hspace{2cm}} + 710 = 850$

ones	
tens	
hundreds	

hundreds place value chart

The image shows a large rectangular area divided into three equal horizontal sections by two horizontal lines. This is a template for a hundreds place value chart, where each section would typically be labeled for hundreds, tens, and ones.

unlabeled hundreds place value chart

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. 2 hundreds 4 tens + 3 hundreds = _____ hundreds _____ tens

$$240 + 300 = \underline{\hspace{2cm}}$$

b. $340 + 300 = \underline{\hspace{2cm}}$ $140 + 500 = \underline{\hspace{2cm}}$ $200 + 440 = \underline{\hspace{2cm}}$

c. $400 + 374 = \underline{\hspace{2cm}}$ $274 + 500 = \underline{\hspace{2cm}}$ $700 + 236 = \underline{\hspace{2cm}}$

d. $571 + \underline{\hspace{2cm}} = 871$ $\underline{\hspace{2cm}} + 349 = 749$ $96 + \underline{\hspace{2cm}} = 696$

e. $\underline{\hspace{2cm}} + 562 = 862$ $300 + \underline{\hspace{2cm}} = 783$ $600 + \underline{\hspace{2cm}} = 726$

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. 6 hundreds 2 ones – 4 hundreds = _____ hundreds _____ tens _____ ones

$$602 - 400 = \underline{\hspace{2cm}}$$

b. $640 - 200 = \underline{\hspace{2cm}}$ $650 - 300 = \underline{\hspace{2cm}}$ $750 - \underline{\hspace{2cm}} = 350$

c. $462 - 200 = \underline{\hspace{2cm}}$ $667 - 500 = \underline{\hspace{2cm}}$ $731 - 400 = \underline{\hspace{2cm}}$

d. $431 - \underline{\hspace{2cm}} = 131$ $985 - \underline{\hspace{2cm}} = 585$ $768 - \underline{\hspace{2cm}} = 68$

e. $\underline{\hspace{2cm}} - 200 = 662$ $\underline{\hspace{2cm}} - 300 = 653$ $734 - \underline{\hspace{2cm}} = 234$

3. Fill in the blanks to make true number sentences. Use place value strategies, number bonds, or the arrow way to solve.
- a. 200 more than 389 is _____.
- b. 300 more than _____ is 568.
- c. 400 less than 867 is _____.
- d. _____ less than 962 is 262.
4. Jessica's lemon tree had 526 lemons. She gave away 300 lemons. How many does she have left? Use the arrow way to solve.

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

$$450 + 200 = \underline{\hspace{2cm}}$$

b. $220 + 300 = \underline{\hspace{2cm}}$ $230 + 500 = \underline{\hspace{2cm}}$ $200 + 440 = \underline{\hspace{2cm}}$

c. $400 + 368 = \underline{\hspace{2cm}}$ $386 + 500 = \underline{\hspace{2cm}}$ $700 + 239 = \underline{\hspace{2cm}}$

d. $119 + \underline{\hspace{2cm}} = 519$ $\underline{\hspace{2cm}} + 272 = 872$ $62 + \underline{\hspace{2cm}} = 562$

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

$$508 - 300 = \underline{\hspace{2cm}}$$

b. $430 - 200 = \underline{\hspace{2cm}}$ $550 - 300 = \underline{\hspace{2cm}}$ $860 - \underline{\hspace{2cm}} = 360$

c. $628 - 200 = \underline{\hspace{2cm}}$ $718 - 500 = \underline{\hspace{2cm}}$ $836 - 400 = \underline{\hspace{2cm}}$

d. $553 - \underline{\hspace{2cm}} = 153$ $981 - \underline{\hspace{2cm}} = 381$ $827 - \underline{\hspace{2cm}} = 27$

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.

Name _____

Date _____

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

a.

$380 + 200$

$380 + 220$

$380 + 230$

b.

$470 + 400$

$470 + 430$

$470 + 450$

c.

$650 + 200$

$650 + 250$

$650 + 280$

d.

$430 + 300$

$430 + 370$

$430 + 390$

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

a. $490 + 200 = \underline{\hspace{2cm}}$ $210 + 490 = \underline{\hspace{2cm}}$ $490 + 220 = \underline{\hspace{2cm}}$

b. $230 + 700 = \underline{\hspace{2cm}}$ $230 + 710 = \underline{\hspace{2cm}}$ $730 + 230 = \underline{\hspace{2cm}}$

c. $260 + 240 = \underline{\hspace{2cm}}$ $260 + 260 = \underline{\hspace{2cm}}$ $280 + 260 = \underline{\hspace{2cm}}$

d. $160 + 150 = \underline{\hspace{2cm}}$ $370 + 280 = \underline{\hspace{2cm}}$ $380 + 450 = \underline{\hspace{2cm}}$

e. $430 + 290 = \underline{\hspace{2cm}}$ $660 + 180 = \underline{\hspace{2cm}}$ $370 + 270 = \underline{\hspace{2cm}}$

3. Solve.

a. $66 \text{ tens} + 20 \text{ tens} = \underline{\hspace{2cm}} \text{ tens}$ b. $66 \text{ tens} + 24 \text{ tens} = \underline{\hspace{2cm}} \text{ tens}$

c. $66 \text{ tens} + 27 \text{ tens} = \underline{\hspace{2cm}} \text{ tens}$ d. $67 \text{ tens} + 28 \text{ tens} = \underline{\hspace{2cm}} \text{ tens}$

e. What is the value of 86 tens? $\underline{\hspace{2cm}}$

Name _____

Date _____

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.

a. $320 + 200 = \underline{\hspace{2cm}}$ $280 + 320 = \underline{\hspace{2cm}}$ $290 + 320 = \underline{\hspace{2cm}}$

b. $130 + 500 = \underline{\hspace{2cm}}$ $130 + 560 = \underline{\hspace{2cm}}$ $130 + 580 = \underline{\hspace{2cm}}$

c. $360 + 240 = \underline{\hspace{2cm}}$ $350 + 270 = \underline{\hspace{2cm}}$ $380 + 230 = \underline{\hspace{2cm}}$

d. $260 + 250 = \underline{\hspace{2cm}}$ $270 + 280 = \underline{\hspace{2cm}}$ $280 + 250 = \underline{\hspace{2cm}}$

e. $440 + 280 = \underline{\hspace{2cm}}$ $660 + 160 = \underline{\hspace{2cm}}$ $770 + 150 = \underline{\hspace{2cm}}$

3. Solve.

a. $34 \text{ tens} + 20 \text{ tens} = \underline{\hspace{2cm}} \text{ tens}$ b. $34 \text{ tens} + 26 \text{ tens} = \underline{\hspace{2cm}} \text{ tens}$

c. $34 \text{ tens} + 27 \text{ tens} = \underline{\hspace{2cm}} \text{ tens}$ d. $34 \text{ tens} + 28 \text{ tens} = \underline{\hspace{2cm}} \text{ tens}$

e. What is the value of 62 tens? $\underline{\hspace{2cm}}$

Name _____

Date _____

1. Solve using the arrow way.

a.

$570 - 200$

$570 - 270$

$570 - 290$

b.

$760 - 400$

$760 - 460$

$760 - 480$

c.

$950 - 500$

$950 - 550$

$950 - 580$

d.

$820 - 320$

$820 - 360$

$820 - 390$

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

a.	$530 - 400 = \underline{\hspace{2cm}}$	$530 - 430 = \underline{\hspace{2cm}}$	$530 - 460 = \underline{\hspace{2cm}}$
b.	$950 - 550 = \underline{\hspace{2cm}}$	$950 - 660 = \underline{\hspace{2cm}}$	$950 - 680 = \underline{\hspace{2cm}}$
c.	$640 - 240 = \underline{\hspace{2cm}}$	$640 - 250 = \underline{\hspace{2cm}}$	$640 - 290 = \underline{\hspace{2cm}}$
d.	$740 - 440 = \underline{\hspace{2cm}}$	$740 - 650 = \underline{\hspace{2cm}}$	$740 - 690 = \underline{\hspace{2cm}}$

3. Solve.

a. $88 \text{ tens} - 20 \text{ tens} = \underline{\hspace{2cm}}$ b. $88 \text{ tens} - 28 \text{ tens} = \underline{\hspace{2cm}}$

c. $88 \text{ tens} - 29 \text{ tens} = \underline{\hspace{2cm}}$ d. $84 \text{ tens} - 28 \text{ tens} = \underline{\hspace{2cm}}$

e. What is the value of 60 tens? $\underline{\hspace{2cm}}$

f. What is the value of 56 tens? $\underline{\hspace{2cm}}$

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.

a.	$330 - 200 = \underline{\hspace{2cm}}$	$330 - 230 = \underline{\hspace{2cm}}$	$330 - 260 = \underline{\hspace{2cm}}$
b.	$440 - 240 = \underline{\hspace{2cm}}$	$440 - 260 = \underline{\hspace{2cm}}$	$440 - 290 = \underline{\hspace{2cm}}$
c.	$860 - 560 = \underline{\hspace{2cm}}$	$860 - 570 = \underline{\hspace{2cm}}$	$860 - 590 = \underline{\hspace{2cm}}$
d.	$970 - 470 = \underline{\hspace{2cm}}$	$970 - 480 = \underline{\hspace{2cm}}$	$970 - 490 = \underline{\hspace{2cm}}$

3. Solve.

a. $66 \text{ tens} - 30 \text{ tens} = \underline{\hspace{2cm}}$ b. $66 \text{ tens} - 36 \text{ tens} = \underline{\hspace{2cm}}$

c. $66 \text{ tens} - 38 \text{ tens} = \underline{\hspace{2cm}}$ d. $67 \text{ tens} - 39 \text{ tens} = \underline{\hspace{2cm}}$

e. What is the value of 28 tens? $\underline{\hspace{2cm}}$

f. What is the value of 36 tens? $\underline{\hspace{2cm}}$

Name _____

Date _____

1. Solve.

a. 30 tens = _____

b. 43 tens = _____

c. 18 tens + 12 tens = _____ tens

d. 18 tens + 13 tens = _____ tens

e. 24 tens + 19 tens = _____ tens

f. 25 tens + 29 tens = _____ tens

2. Add by drawing a number bond to make a hundred. Write the simplified equation and solve.

a. $190 + 130$



$$\underline{\quad 200 + 120 \quad} = \underline{\quad \quad \quad}$$

b. $260 + 190$

$$\underline{\quad \quad \quad} = \underline{\quad \quad \quad}$$

c. $330 + 180$

$$\underline{\quad \quad \quad} = \underline{\quad \quad \quad}$$

d. $440 + 280$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

e. $199 + 86$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

f. $298 + 57$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

g. $425 + 397$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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 equation and solve.

a. $90 + 180$



$$\underline{100 + 170} = \underline{\hspace{2cm}}$$

b. $190 + 460$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

c. $540 + 280$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

d. $380 + 430$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

e. $99 + 141$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

f. $75 + 299$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

g. $795 + 156$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Name _____

Date _____

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

a. $220 - 190 = \underline{230 - 200} = \underline{\quad}$

+ 10	220
------	-----

+ 10	190
------	-----

b. $320 - 190 = \underline{\quad} = \underline{\quad}$

--	--

--	--

c. $400 - 280 = \underline{\quad} = \underline{\quad}$

d. $470 - 280 = \underline{\quad} = \underline{\quad}$

e. $530 - 270 = \underline{\quad} = \underline{\quad}$

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

a. $451 - 199 = \underline{452 - 200} = \underline{\hspace{2cm}}$

+ 1	451	Check:
+ 1	199	

b. $562 - 299 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

	Check:
--	--------

c. $432 - 298 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

	Check:
--	--------

d. $612 - 295 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

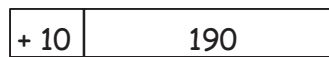
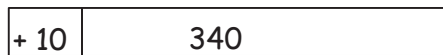
	Check:
--	--------

Name _____

Date _____

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

a. $340 - 190 = \underline{350 - 200} = \underline{\quad}$



b. $420 - 190 = \underline{\quad} = \underline{\quad}$



c. $500 - 280 = \underline{\quad} = \underline{\quad}$

d. $650 - 280 = \underline{\quad} = \underline{\quad}$

e. $740 - 270 = \underline{\quad} = \underline{\quad}$

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

a. $236 - 99 = \underline{237 - 100} = \underline{\hspace{2cm}}$

+ 1	236	Check:
+ 1	99	

b. $372 - 199 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

	Check:
--	--------

c. $442 - 298 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

	Check:
--	--------

d. $718 - 390 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

	Check:
--	--------

Name _____

Date _____

1. Circle the student work that shows a *correct* solution to $543 + 290$.

$543 + 290 = 533 + 300 = 833$ $\begin{array}{r} 43 \\ 33 \end{array}$	Explain the mistake in any of the incorrect solutions. _____ _____ _____ _____ _____
$543 + 290 = 553 + 300 = 853$ <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">+10 543</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">+10 290</div>	
$543 \xrightarrow{+200} 743 \xrightarrow{+60} 803 \xrightarrow{+30} 833$	

2. Circle the student work that *correctly* shows a strategy to solve $721 - 490$.

$$721 - 490 = 711 - 500 = 211$$

$$\begin{array}{r} 721 \\ 711 \end{array}$$

+10 | 721

+10 | 490

$$731 - 500 = 231$$

Fix the work that is *incorrect* by making a new drawing in the space below with a matching number sentence.

3. Two students solved $636 + 294$ using two different strategies.

$$636 \xrightarrow{+4} 640 \xrightarrow{+60} 700 \xrightarrow{+30} 730 \xrightarrow{+200} 930$$

$$\begin{array}{r} 636 + 294 = 630 + 300 = 930 \\ \quad \wedge \\ 630 \quad 6 \end{array}$$

Explain which strategy would be easier to use when solving and why.

4. Circle one of the strategies below, and use the circled strategy to solve $290 + 374$.

<p>a.</p> <p style="text-align: center;"><i>arrow way / number bond</i></p>	<p>b. Solve:</p>
---	------------------

- c. Explain why you chose that strategy.

Name _____

Date _____

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.

a. $370 + 300 = \underline{\quad}$	b. $\underline{\quad} = 562 - 200$	c. $\underline{\quad} + 500 = 812$
d. $230 - 190 = \underline{\quad}$	e. $\underline{\quad} = 640 - 180$	f. $450 - 290 = \underline{\quad}$

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

a. $420 - 230 = \underline{\quad}$	b. $340 - 160 = \underline{\quad}$	c. $710 - 350 = \underline{\quad}$
---------------------------------------	---------------------------------------	---------------------------------------

3. Solve $667 + 295$ using two different strategies.

a.	b.
----	----

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. <i>arrow way / number bond</i>	b. Solve:
--	-----------

c. Explain why you chose that strategy.

Student A

$$\begin{array}{r} 697 + 223 \\ / \\ 3 220 \end{array}$$

$$700 + 220 = 920$$

Student B

$$697 \xrightarrow{+3} 700 \xrightarrow{+200} 900 \xrightarrow{+20} 920$$

Student C

$$\begin{array}{r} 864 - 380 \\ / \\ 844 \end{array}$$

$$844 - 400 = 444$$

Student D

+20	864
-----	-----

+20	380
-----	-----

$$884 - 400 = 484$$

student work samples

Name _____

Date _____

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

a. $301 + 49$	b. $402 + 48$
c. $315 + 93$	d. $216 + 192$
e. $545 + 346$	f. $565 + 226$
g. $222 + 687$	h. $164 + 745$

2. Solve.

a. $300 + 200 = \underline{\hspace{2cm}}$

b. $320 + 200 = \underline{\hspace{2cm}}$

c. $320 + 230 = \underline{\hspace{2cm}}$

d. $320 + 280 = \underline{\hspace{2cm}}$

e. $328 + 286 = \underline{\hspace{2cm}}$

f. $600 + 80 = \underline{\hspace{2cm}}$

g. $600 + 180 = \underline{\hspace{2cm}}$

h. $620 + 180 = \underline{\hspace{2cm}}$

i. $680 + 220 = \underline{\hspace{2cm}}$

j. $680 + 230 = \underline{\hspace{2cm}}$

Name _____

Date _____

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.

a. $200 + 400 =$ _____

b. $220 + 400 =$ _____

c. $220 + 440 =$ _____

d. $220 + 480 =$ _____

e. $225 + 485 =$ _____

f. $500 + 60 =$ _____

g. $500 + 160 =$ _____

h. $540 + 160 =$ _____

i. $560 + 240 =$ _____

j. $560 + 250 =$ _____

Name _____

Date _____

1. Solve the following problems using place value disks, a place value chart, and vertical form.

a. $417 + 293$	b. $526 + 185$
c. $338 + 273$	d. $625 + 186$
e. $250 + 530$	f. $243 + 537$
g. $376 + 624$	h. $283 + 657$

2. Solve.

a. $270 + 430 = \underline{\hspace{2cm}}$

b. $260 + 440 = \underline{\hspace{2cm}}$

c. $255 + 445 = \underline{\hspace{2cm}}$

d. $258 + 443 = \underline{\hspace{2cm}}$

e. $408 + 303 = \underline{\hspace{2cm}}$

f. $478 + 303 = \underline{\hspace{2cm}}$

g. $478 + 323 = \underline{\hspace{2cm}}$

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.

a. $180 + 420 =$ _____

b. $190 + 430 =$ _____

c. $364 + 236 =$ _____

d. $275 + 435 =$ _____

e. $404 + 206 =$ _____

f. $440 + 260 =$ _____

g. $444 + 266 =$ _____

Name _____

Date _____

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

hundreds	tens	ones

a. $117 + 170 =$ _____

hundreds	tens	ones

b. $217 + 173 =$ _____

hundreds	tens	ones

c. $371 + 133 =$ _____

hundreds	tens	ones

d. $504 + 269 =$ _____

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

a. $546 + 192 =$ _____

b. $546 + 275 =$ _____

Name _____

Date _____

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

hundreds	tens	ones

a. $124 + 260 =$ _____

hundreds	tens	ones

b. $426 + 324 =$ _____

hundreds	tens	ones

c. $362 + 243 =$ _____

hundreds	tens	ones

d. $606 + 294 = \underline{\hspace{2cm}}$

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

a. $372 + 118 = \underline{\hspace{2cm}}$

b. $248 + 233 = \underline{\hspace{2cm}}$

Name _____

Date _____

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

hundreds	tens	ones

a. $227 + 183 =$ _____

hundreds	tens	ones

b. $424 + 288 =$ _____

hundreds	tens	ones

c. $638 + 298 =$ _____

hundreds	tens	ones

d. $648 + 289 = \underline{\hspace{2cm}}$

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

a. $307 + 187$

b. $398 + 207$

Name _____

Date _____

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

hundreds	tens	ones

a. $167 + 224 =$ _____

hundreds	tens	ones

b. $518 + 245 =$ _____

hundreds	tens	ones

c. $482 + 369 =$ _____

hundreds	tens	ones

d. $638 + 298 = \underline{\hspace{2cm}}$

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

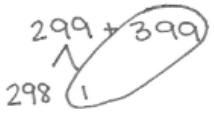
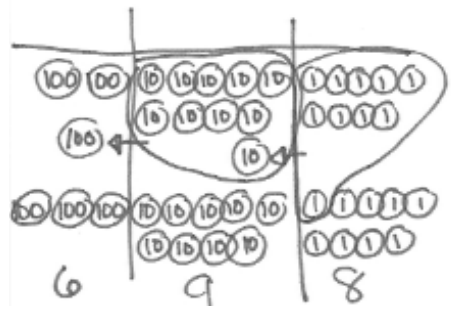
a. $456 + 378$

b. $187 + 567$

Name _____

Date _____

1. Tracy solved the problem $299 + 399$ four different ways.

$299 \xrightarrow{+1} 300 \xrightarrow{+98} 398 \xrightarrow{+300} 698$	$299 + 399$  $298 + 400 = 698$						
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">hundreds</th> <th style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">tens</th> <th style="border-bottom: 1px solid black; padding: 5px;">ones</th> </tr> </thead> <tbody> <tr> <td style="border-right: 1px solid black; text-align: center; padding: 10px;">6</td> <td style="border-right: 1px solid black; text-align: center; padding: 10px;">9</td> <td style="text-align: center; padding: 10px;">8</td> </tr> </tbody> </table>	hundreds	tens	ones	6	9	8
hundreds	tens	ones					
6	9	8					

Explain which strategy is most efficient for Tracy to use and why.

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

a. $221 + 498$	Explanation: <hr/> <hr/> <hr/> <hr/>
b. $467 + 200$	Explanation: <hr/> <hr/> <hr/> <hr/>
c. $378 + 464$	Explanation: <hr/> <hr/> <hr/> <hr/>

Name _____

Date _____

1. Solve $435 + 290$ using two different strategies.

a.	b.
----	----

c. Explain which strategy would be easier and why.

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

a. $299 + 458$	Explanation: <hr/> <hr/> <hr/> <hr/>
b. $733 + 210$	Explanation: <hr/> <hr/> <hr/> <hr/>
c. $295 + 466$	Explanation: <hr/> <hr/> <hr/> <hr/>

Name _____

Date _____

1. Solve using mental math.

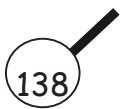
a. $8 - 6 = \underline{\quad}$ $80 - 60 = \underline{\quad}$ $180 - 60 = \underline{\quad}$ $180 - 59 = \underline{\quad}$

b. $6 - 3 = \underline{\quad}$ $60 - 30 = \underline{\quad}$ $760 - 30 = \underline{\quad}$ $760 - 28 = \underline{\quad}$

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

a. $138 - 17 = \underline{121}$

b. $138 - 19 = \underline{\quad}$



$$\begin{array}{r} 138 \\ -17 \\ \hline 121 \end{array}$$

$$\begin{array}{r} 121 \\ +17 \\ \hline 138 \end{array}$$

c. $445 - 35 = \underline{\quad}$

d. $445 - 53 = \underline{\quad}$

e. $863 - 170 = \underline{\hspace{2cm}}$

f. $845 - 152 = \underline{\hspace{2cm}}$

g. $472 - 228 = \underline{\hspace{2cm}}$

h. $418 - 274 = \underline{\hspace{2cm}}$

i. $567 - 184 = \underline{\hspace{2cm}}$

j. $567 - 148 = \underline{\hspace{2cm}}$

Name _____

Date _____

1. Solve using mental math.


a. $9 - 5 = \underline{\quad}$ $90 - 50 = \underline{\quad}$ $190 - 50 = \underline{\quad}$ $190 - 49 = \underline{\quad}$

b. $7 - 4 = \underline{\quad}$ $70 - 40 = \underline{\quad}$ $370 - 40 = \underline{\quad}$ $370 - 39 = \underline{\quad}$

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

a. $153 - 31 = \underline{122}$

b. $153 - 38 = \underline{\quad}$


$$\begin{array}{r} 153 \\ -31 \\ \hline 122 \end{array}$$
$$\begin{array}{r} 122 \\ +31 \\ \hline 153 \end{array}$$

c. $362 - 49 = \underline{\quad}$

d. $485 - 177 = \underline{\quad}$

e. $753 - 290 = \underline{\hspace{2cm}}$

f. $567 - 290 = \underline{\hspace{2cm}}$

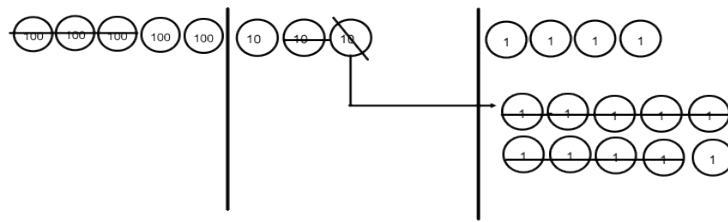
g. $873 - 428 = \underline{\hspace{2cm}}$

h. $817 - 565 = \underline{\hspace{2cm}}$

i. $973 - 681 = \underline{\hspace{2cm}}$

j. $748 - 239 = \underline{\hspace{2cm}}$

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



$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = 215$$

Name _____

Date _____

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

a. $469 - 170$	Solve vertically or mentally:	Check:
b. $531 - 224$	Solve vertically or mentally:	Check:
c. $618 - 229$	Solve vertically or mentally:	Check:

d. $838 - 384$	Solve vertically or mentally:	Check:
e. $927 - 628$	Solve vertically or mentally:	Check:

2. If $561 - 387 = 174$, then $174 + 387 = 561$. Explain why this statement is true using numbers, pictures, or words.

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.

Name _____

Date _____

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

<p>a. $699 - 210$</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"> </td> <td> </td> <td> </td> </tr> </tbody> </table>	hundreds	tens	ones				Solve vertically or mentally:	Check:
hundreds	tens	ones						
<p>b. $758 - 387$</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"> </td> <td> </td> <td> </td> </tr> </tbody> </table>	hundreds	tens	ones				Solve vertically or mentally:	Check:
hundreds	tens	ones						
<p>c. $788 - 299$</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"> </td> <td> </td> <td> </td> </tr> </tbody> </table>	hundreds	tens	ones				Solve vertically or mentally:	Check:
hundreds	tens	ones						

<p>d. $821 - 523$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; text-align: center;">hundreds</th> <th style="width: 33%; text-align: center;">tens</th> <th style="width: 33%; text-align: center;">ones</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"></td> <td></td> <td></td> </tr> </tbody> </table>	hundreds	tens	ones				Solve vertically or mentally:	Check:
hundreds	tens	ones						
<p>e. $913 - 558$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; text-align: center;">hundreds</th> <th style="width: 33%; text-align: center;">tens</th> <th style="width: 33%; text-align: center;">ones</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"></td> <td></td> <td></td> </tr> </tbody> </table>	hundreds	tens	ones				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 $762 - \underline{\hspace{2cm}} = 173$, then $173 + 589 = \underline{\hspace{2cm}}$.

b. If $631 - \underline{\hspace{2cm}} = 273$, then $\underline{\hspace{2cm}} + 273 = 631$.

Name _____

Date _____

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

<p>a. $800 - 675$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">hundreds</td> <td style="width: 33%;">tens</td> <td style="width: 33%;">ones</td> </tr> <tr> <td style="border-top: 1px solid black; border-bottom: 1px solid black;"> </td> <td style="border-top: 1px solid black; border-bottom: 1px solid black;"> </td> <td style="border-top: 1px solid black; border-bottom: 1px solid black;"> </td> </tr> </table>	hundreds	tens	ones				Solve vertically or mentally:	Check:
hundreds	tens	ones						
<p>b. $742 - 495$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">hundreds</td> <td style="width: 33%;">tens</td> <td style="width: 33%;">ones</td> </tr> <tr> <td style="border-top: 1px solid black; border-bottom: 1px solid black;"> </td> <td style="border-top: 1px solid black; border-bottom: 1px solid black;"> </td> <td style="border-top: 1px solid black; border-bottom: 1px solid black;"> </td> </tr> </table>	hundreds	tens	ones				Solve vertically or mentally:	Check:
hundreds	tens	ones						
<p>c. $657 - 290$</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">hundreds</td> <td style="width: 33%;">tens</td> <td style="width: 33%;">ones</td> </tr> <tr> <td style="border-top: 1px solid black; border-bottom: 1px solid black;"> </td> <td style="border-top: 1px solid black; border-bottom: 1px solid black;"> </td> <td style="border-top: 1px solid black; border-bottom: 1px solid black;"> </td> </tr> </table>	hundreds	tens	ones				Solve vertically or mentally:	Check:
hundreds	tens	ones						

<p>d. $877 - 398$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; text-align: center;">hundreds</th> <th style="width: 33%; text-align: center;">tens</th> <th style="width: 33%; text-align: center;">ones</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"></td> <td></td> <td></td> </tr> </tbody> </table>	hundreds	tens	ones				Solve vertically or mentally:	Check:
hundreds	tens	ones						
<p>e. $941 - 628$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; text-align: center;">hundreds</th> <th style="width: 33%; text-align: center;">tens</th> <th style="width: 33%; text-align: center;">ones</th> </tr> </thead> <tbody> <tr> <td style="height: 150px;"></td> <td></td> <td></td> </tr> </tbody> </table>	hundreds	tens	ones				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 $928 - \underline{\hspace{2cm}} = 519$, then $519 + 409 = \underline{\hspace{2cm}}$.

b. If $764 - \underline{\hspace{2cm}} = 391$, then $\underline{\hspace{2cm}} + 391 = 764$.

Name _____

Date _____

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

a. $304 - 53 =$ _____

hundreds	tens	ones

b. $406 - 187 =$ _____

hundreds	tens	ones

c. $501 - 316 =$ _____

hundreds	tens	ones

d. $700 - 509 =$ _____

hundreds	tens	ones

e. $900 - 626 =$ _____

hundreds	tens	ones

2. Emily said that $400 - 247$ is the same as $399 - 246$. Write an explanation using pictures, numbers, or words to prove Emily is correct.

Name _____

Date _____

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

a. $206 - 89 =$ _____

hundreds	tens	ones

b. $509 - 371 =$ _____

hundreds	tens	ones

c. $607 - 288 =$ _____

hundreds	tens	ones

d. $800 - 608 = \underline{\hspace{2cm}}$

hundreds	tens	ones

e. $900 - 572 = \underline{\hspace{2cm}}$

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.

Name _____

Date _____

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

a. $200 - 113 =$ _____

hundreds	tens	ones

b. $400 - 247 =$ _____

hundreds	tens	ones

c. $700 - 428 =$ _____

hundreds	tens	ones

d. $800 - 606 = \underline{\hspace{2cm}}$

hundreds	tens	ones

e. $901 - 404 = \underline{\hspace{2cm}}$

hundreds	tens	ones

2. Solve $600 - 367$. Then, check your work using addition.

Solution:	Check:
-----------	--------

Name _____

Date _____

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

a. $200 - 123 =$ _____

hundreds	tens	ones

b. $400 - 219 =$ _____

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:

Name _____

Date _____

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

a. $300 - 247$

b. $600 - 465$

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

a. $507 - 359$

b. $708 - 529$

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

a. $600 - 437$

Explanation:

b. $808 - 597$

Explanation:

4. Prove the student's strategy by solving both problems to check that their solutions are the same. Explain to your partner why this way works.



5. Use the simplifying strategy from Problem 4 to solve the following two problems.

a. $600 - 547$

b. $700 - 513$

Name _____

Date _____

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.

Solution:

Name _____

Date _____

1. Explain how the two strategies to solve $500 - 211$ are related.

<p>a.</p>	<p>b.</p>
-----------	-----------

2. Solve and explain why you chose that strategy.

a. $220 + 390 = \underline{\hspace{2cm}}$	Explanation: <hr/> <hr/> <hr/> <hr/>
b. $547 - 350 = \underline{\hspace{2cm}}$	Explanation: <hr/> <hr/> <hr/> <hr/>
c. $464 + 146 = \underline{\hspace{2cm}}$	Explanation: <hr/> <hr/> <hr/> <hr/>
d. $600 - 389 = \underline{\hspace{2cm}}$	Explanation: <hr/> <hr/> <hr/> <hr/>

Name _____

Date _____

1. Solve and explain why you chose that strategy.

a. $340 + 250 = \underline{\hspace{2cm}}$

Explanation:

b. $490 + 350 = \underline{\hspace{2cm}}$

Explanation:

c. $519 + 342 = \underline{\hspace{2cm}}$

Explanation:

d. $610 + \underline{\quad\quad} = 784$

Explanation:

e. $700 - 456 = \underline{\quad\quad}$

Explanation:

f. $904 - 395 = \underline{\quad\quad}$

Explanation:

Name _____

Date _____

Step 1: Show your strategy to solve.

Step 2: Find a classmate who used a different strategy, and copy his work into the box.

Step 3: Discuss which strategy is more efficient.

1. $399 + 237 =$ _____

a. My strategy

b. _____'s strategy

2. $400 - 298 =$ _____

a. My strategy

b. _____'s strategy

3. $548 + 181 = \underline{\hspace{2cm}}$

a. My strategy	b. _____'s strategy
----------------	---------------------

4. $360 + \underline{\hspace{2cm}} = 754$

a. My strategy	b. _____'s strategy
----------------	---------------------

5. $862 - \underline{\hspace{2cm}} = 690$

a. My strategy	b. _____'s strategy
----------------	---------------------

Name _____

Date _____

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. $257 + 160 = \underline{\hspace{2cm}}$

a. *Arrow way or vertical form*

b. Solve:	c. Explanation: <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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4. $754 - 597 = \underline{\hspace{2cm}}$

a. *Number bond or arrow way*

b. Solve:	c. Explanation: <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
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