

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

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

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

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

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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. $190 + 130$



$$\underline{200 + 120} = \underline{\hspace{2cm}}$$

b. $260 + 190$

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

c. $330 + 180$

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

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

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

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

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

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

$543 + 290 = 533 + 300 = 833$ <p style="margin-left: 40px;">^ 533 10</p>	<p>Explain the mistake in any of the incorrect solutions.</p> <hr/> <hr/> <hr/> <hr/> <hr/>
$543 + 290 = 553 + 300 = 853$ <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;">+10 543</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px 0;">+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 $721 - 490$.

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

711 ^ 10

+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.

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

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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. $283 + 657$

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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. $638 + 298 =$ _____

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/>

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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:

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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.

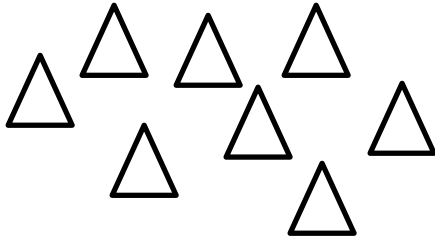
a. $600 - 437$

Explanation:

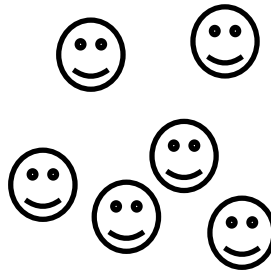
Name _____

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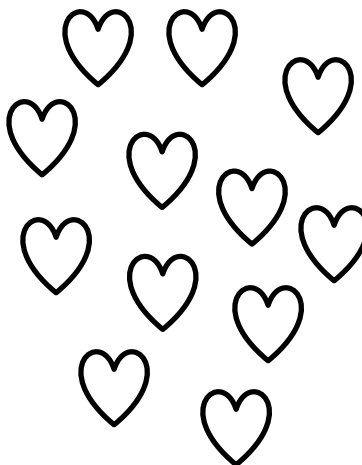
1. Circle groups of four. Then, draw the triangles into 2 equal rows.



2. Circle groups of two. Redraw the groups of two as rows and then as columns.



3. Circle groups of three. Redraw the groups of three as rows and then as columns.



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Draw an array for each word problem. Write a repeated addition equation to match each array.

1. Jason collected some rocks. He put them in 5 rows with 3 stones in each row. How many stones did Jason have altogether?
2. Abby made 3 rows of 4 chairs. How many chairs did Abby use?
3. There are 3 wires and 5 birds sitting on each of them. How many birds in all are on the wires?
4. Henry's house has 2 floors. There are 4 windows on each floor that face the street. How many windows face the street?

Draw a tape diagram for each word problem. Write a repeated addition equation to match each tape diagram.

5. Each of Maria's 4 friends has 5 markers. How many markers do Maria's friends have in all?
6. Maria also has 5 markers. How many markers do Maria and her friends have in all?

Draw a tape diagram and an array. Then, write a repeated addition equation to match.

7. In a card game, 3 players get 4 cards each. One more player joins the game. How many total cards should be dealt now?

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Use your square tiles to construct the following rectangles with no gaps or overlaps.
Write a repeated addition equation to match each construction.

1. a. Construct a rectangle with 2 rows of 3 tiles.

- b. Construct a rectangle with 2 columns of 3 tiles.

2. a. Construct a rectangle with 5 rows of 2 tiles.

- b. Construct a rectangle with 5 columns of 2 tiles.

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Cut out Rectangles A, B, and C. Then, cut according to directions. Answer each of the following using Rectangles A, B, and C.¹

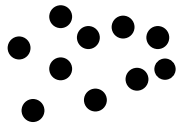
1. Cut out each row of Rectangle A.
 - a. Rectangle A has _____ rows.
 - b. Each row has _____ squares.
 - c. _____ rows of _____ = _____
 - d. Rectangle A has _____ squares.

2. Cut out each column of Rectangle B.
 - a. Rectangle B has _____ columns.
 - b. Each column has _____ squares.
 - c. _____ columns of _____ = _____
 - d. Rectangle B has _____ squares.

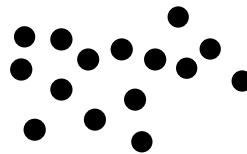
¹Note: This Problem Set is used with a template of three identical 2 by 4 arrays. These arrays are labeled as Rectangles A, B, and C.

- Write the number of dots in each array in Problem 2 in order from least to greatest.
- Circle the array in Problem 2 that has 2 columns of 7.
- Box the array in Problem 2 that has 2 columns of 9.
- Redraw the following sets of dots as columns of two or 2 equal rows.

a.



b.



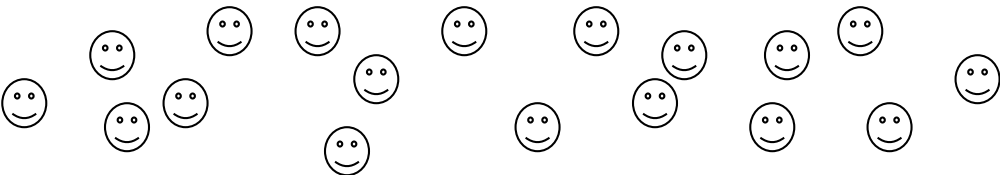
There are _____ dots.

There are _____ dots.

Is _____ an even number? _____

Is _____ an even number? _____

- Circle groups of two. Count by twos to see if the number of objects is even.



a. There are _____ twos. There are _____ left over.

b. Count by twos to find the total.

c. This group has an even number of objects: True or False

2. Solve. Tell if each number is odd (O) or even (E). The first one has been done for you.

$$\begin{array}{r} \text{a. } 6 + 4 = 10 \\ \underline{E} + \underline{E} = \underline{E} \end{array}$$

$$\begin{array}{r} \text{d. } 14 + 8 = \underline{\hspace{2cm}} \\ \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} \text{b. } 17 + 2 = \underline{\hspace{2cm}} \\ \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} \text{e. } 3 + 9 = \underline{\hspace{2cm}} \\ \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} \text{c. } 11 + 13 = \underline{\hspace{2cm}} \\ \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} \text{f. } 5 + 14 = \underline{\hspace{2cm}} \\ \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}} \end{array}$$

3. Write two examples for each case. Write if your answers are even or odd. The first one has been started for you.

a. Add an even number to an even number.

$$\underline{32 + 8 = 40 \text{ even}} \quad \underline{\hspace{10cm}}$$

b. Add an odd number to an even number.

$$\underline{\hspace{10cm}}$$

c. Add an odd number to an odd number.

$$\underline{\hspace{10cm}}$$