


Reception



Year 1

Represent objects


1 How many cakes are there? Draw counters.



1	2	3	4	5
6	7	8	9	10

There are 10 cakes. ✓

2 How many cherries are there? Draw counters.




1	2	3	4	5
6	7			

There are 7 cherries. ✓

How did you count them?


3 How many leaves are there? Draw counters.





1	2	3	4	5
6	7	8	9	10


There are 10 leaves. ✓


4 Match the animals to the ten frames.














Flexibly partition numbers to 100

1 Complete the sentences to match the pictures.

a)

34 can be partitioned into 30 and 4

b)

34 can be partitioned into 20 and 14

c)

34 can be partitioned into 10 and 24

2 Complete the sentences to match the base 10

a)

56 can be partitioned into 40 and 16

b)

56 can be partitioned into 30 and 26

c)

56 can be partitioned into 20 and 36

Can you partition 56 another way?

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6 Rosie starts from zero and counts up in 100s. Circle the numbers that she says.

500
1,000

50
100

900
 99

70
10

7 What numbers are shown?

a)

100

b)

200

8 Complete the sentences.

a) There are 40 tens in 400

b) There are 90 tens in 900

c) There are 70 tens in 700.

256 = 200 + 50 + 6 ✓

127 = 100 + 20 + 7 ✓

432 = 400 + 30 + 2 ✓

368 = 300 + 60 + 8 ✓

615 = 600 + 10 + 5 ✓


541 = 500 + 40 + 1 ✓

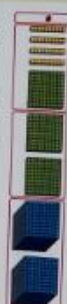
763 = 700 + 60 + 3 ✓


60 + 300 + 2 = 362 ✓

Flexible partitioning of numbers to 10,000

Complete the number sentences.

a)  $2,341 = 2,000 + 300 + 40 + 1$


b)  $2,341 = 2,000 + 200 + 140 + 1$

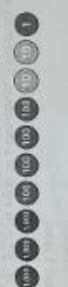
c)  $2,341 = 2,300 + 30 + 11$

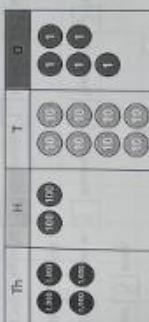
What is the same about each pair?
What is different about each pair?
Talk about it with a partner.

Partition numbers to 10,000

Complete the number sentences.

a)  $2,341 = 2,000 + 100 + 50 + 6$

b)  $2,341 = 3,000 + 400 + 20 + 1$

c)  $2,341 = 4,000 + 200 + 80 + 5$

Use the place value chart to help you complete the number sentences.

Th	H	T	U
200	30	4	1


a) $5,253 = 5,000 + 200 + 50 + 3$

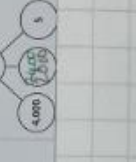
b) $5,253 = 5,000 + 100 + 150 + 3$

c) $5,253 = 4,000 + 900 + 40 + 3$


d) $5,253 = 1,000 + 1,000 + 400 + 3$


Complete the part-whole models.

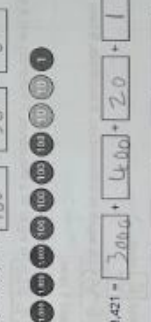
e) 

f) 

Complete the number sentences.

a)  $5,253 = 5,000 + 200 + 50 + 3$

b)  $5,253 = 3,000 + 400 + 20 + 3$

c)  $5,253 = 4,000 + 200 + 80 + 3$

Numbers 50, 100

1. Complete the calculations.

a) $2,800 + 1 = 2,801$
 $2,800 + 10 = 2,810$
 $2,800 + 100 = 2,900$
 $2,800 + 1,000 = 3,800$

b) $1,200 - 1 = 1,199$
 $1,200 - 10 = 1,190$
 $1,200 - 100 = 1,100$
 $1,200 - 1,000 = 200$

2. Complete the table.

Number	1 more	10 more	100 more	1,000 more
500	501	510	600	1,500
1,200	1,201	1,210	1,300	2,200
4,500	4,501	4,510	4,600	5,500
1,000	1,001	1,010	1,100	2,000
1,000	1,001	1,010	1,100	2,000
5,000	5,001	5,010	5,100	6,000

3. Complete the place value charts.

a) $3,007$

3	0	7
Thousands	Hundreds	Tens

b) $4,009$

4	0	9
Thousands	Hundreds	Tens

4. Write the value of the 7 in each number.

a) 3,071: 70
b) 707: 70
c) 7,004: 7,000
d) 5,711: 700
e) 73: 70
f) 2,807: 70
g) 6,074: 70
h) 7,000: 7,000

5. Alex makes a number on a place value chart.

• His number has a digit value of 17.
• There are two more counters in the hundreds column than the thousands column.

When numbers could Alex have made? **7910**

6. Make a number and write a fact about it.

Numbers to 100,000

1. A number is represented on the place value chart.

100	10	1	0	0
Thousands	Hundreds	Tens	Units	Tenths

a) What is the number?
Write your answer in numerals and words.
1,010
One thousand and ten.

b) Tidy adds some counters to the place value chart.

What number has Tidy made?
1,030
One thousand and thirty.

c) Tidy adds some more counters to the place value chart. The number is now 81,050.
What number has Tidy added?
80,040
Eighty thousand and forty.

2. Nigh has made this number on a place value chart.

100	10	1	0	0
Thousands	Hundreds	Tens	Units	Tenths

a) Write the number in numerals.
Write the number in words.
1,010
One thousand and ten.

b) Tidy adds 2 counters to the thousands column, and 1 counter to the tens column.
Write Tidy's new number in numerals.
3,010
Three thousand and ten.

3. Draw counters on a place value chart to represent each number.

a) 410
b) 21,005

4. Complete the bar models.

a) $57,000 + 4,000 = 61,000$
b) $10,000 + 2,000 = 12,000$
c) $50,000 + 2,000 = 52,000$
d) $9,000 + 1,000 = 10,000$

5. Complete the number sentences.

a) $40,000 + 2,000 = 42,000$
b) $12,000 + 10,000 = 22,000$
c) $30,000 + 2,000 = 32,000$
d) $70,000 + 10,000 = 80,000$
e) $50,000 + 40,000 = 90,000$

1. **1,010**
One thousand and ten.

2. **3,010**
Three thousand and ten.

3. **410**
Four hundred and ten.

4. **21,005**
Twenty thousand and five.

5. **81,050**
Eighty thousand and fifty.

1. **1,010**
One thousand and ten.

2. **3,010**
Three thousand and ten.

3. **410**
Four hundred and ten.

4. **21,005**
Twenty thousand and five.

5. **81,050**
Eighty thousand and fifty.

1. **1,010**
One thousand and ten.

2. **3,010**
Three thousand and ten.

3. **410**
Four hundred and ten.

4. **21,005**
Twenty thousand and five.

5. **81,050**
Eighty thousand and fifty.

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One thousand and ten.

2. **3,010**
Three thousand and ten.

3. **410**
Four hundred and ten.

4. **21,005**
Twenty thousand and five.

5. **81,050**
Eighty thousand and fifty.

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One thousand and ten.

2. **3,010**
Three thousand and ten.

3. **410**
Four hundred and ten.

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Twenty thousand and five.

5. **81,050**
Eighty thousand and fifty.

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One thousand and ten.

2. **3,010**
Three thousand and ten.

3. **410**
Four hundred and ten.

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Twenty thousand and five.

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Eighty thousand and fifty.

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Eighty thousand and fifty.

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One thousand and ten.

2. **3,010**
Three thousand and ten.

3. **410**
Four hundred and ten.

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Twenty thousand and five.

5. **81,050**
Eighty thousand and fifty.

1. **1,010**
One thousand and ten.

2. **3,010**
Three thousand and ten.

3. **410**
Four hundred and ten.

4. **21,005**
Twenty thousand and five.

5. **81,050**
Eighty thousand and fifty.

1. **1,010**
One thousand and ten.

2. **3,010**
Three thousand and ten.

3. **410**
Four hundred and ten.

4. **21,005**

Numbers to 10,000,000

1. What numbers are represented in the place value chart?

a.

M	H	T	O	T	O
			●●●		●●●

b.

M	H	T	O	T	O
●●				●●●	●●●

c.

M	H	T	O	T	O
●●	●●	●●	●●	●●	●●

d.

M	H	T	O	T	O
●●	●●	●●	●●	●●	●●

2. What numbers are represented in the place value chart?

a.

M	H	T	O	T	O
●●	●●	●●	●●	●●	●●

b.

M	H	T	O	T	O
●●	●●	●●	●●	●●	●●

c.

M	H	T	O	T	O
●●	●●	●●	●●	●●	●●

d.

M	H	T	O	T	O
●●	●●	●●	●●	●●	●●

3. Write each number in a place value chart.

a. 95,800 b. 900,162 c. 7 million d. 4,104,053

4. What are the values of the bold digits?

a. 2,150 b. 195,000 c. 1,432,311 d. 2,068,790

4) a. 20

b. 7,000

c. 90,000

d. 3

e. 1,000,000

f. 5,000

5) a. 3,234,907

b. 3,654,907

c. 3,234,907

6) a.

M	H	T	O	T	O
3	6	0	0	0	0

b.

M	H	T	O	T	O
3	2	3	4	9	0

c.

M	H	T	O	T	O
3	2	3	4	9	0

d.

M	H	T	O	T	O
3	2	3	4	9	0

e.

M	H	T	O	T	O
3	2	3	4	9	0

f.

M	H	T	O	T	O
3	2	3	4	9	0

7. How is a number?

a. What is the number?

b. What is 400,000 greater than the number?

c. What is 75,000 less than the number?

8. Complete the part-whole models and number sentences.

a.

100,000	10,000
25,000	75,000

b.

100,000	10,000
25,000	75,000

c. $25,000 + 75,000 = 100,000$

d. $100,000 - 75,000 = 25,000$

e. $100,000 - 25,000 = 75,000$

9. My class 7 counters to make a 6-digit number on a place value chart.

a. Write five numbers the ten million.

b. What is the greatest number we can make?

c. What is the smallest number we can make?

d. What do you notice about the sum of the digits?

10. Greater than written a set of three to describe a number.

a. It has 5 tens. b. It has 7 digits.

c. It has one more thousand. d. It starts with a 9.

e. It has one more ten. f. The rest of the digits are zero.

What is the number?

32,053

302,530

3253000

3020503

31,5263

015243

32,053

302,530

3253000

3020503

31,5263

015243

32,053

302,530

3253000

3020503

31,5263

015243

32,053

302,530

3253000

3020503

31,5263

015243

32,053

302,530

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3020503

31,5263

015243

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015243

