CHAPTER 3

Outcomes of chapter three :

At the end of chapter three, your child will be able to:

▶ **Lessons 1 & 2 :**
- Participate in calendar math activities.
- Represent 3-digit numbers using concrete models.
- Read and write 3-digit numbers.
- Identify the place and value of each digit in a 3-digit number.

▶ **Lessons 3 to 6 :**
- Participate in calendar math activities.
- Read and write 3-digit numbers in standard form and in expanded form.
- Convert numbers in expanded form to standard form.
- Identify the place and value of each digit in a 3-digit number.
- Read and write numbers 1 to 9 and multiples of 10 through 90 in word form.
- Match the word form of numbers 11 to 19 to their standard form.

▶ **Lessons 7 & 8:**
- Participate in calendar math activities.
- Use place value to compare two 3-digit numbers.
- Use place value to compare a 2-digit and a 3-digit number.
- Use the symbols >, = and < to express comparisons.

▶ **Lessons 9 & 10 :**
- Participate in calendar math activities.
- Compare and order numbers in expanded, word, and standard forms.
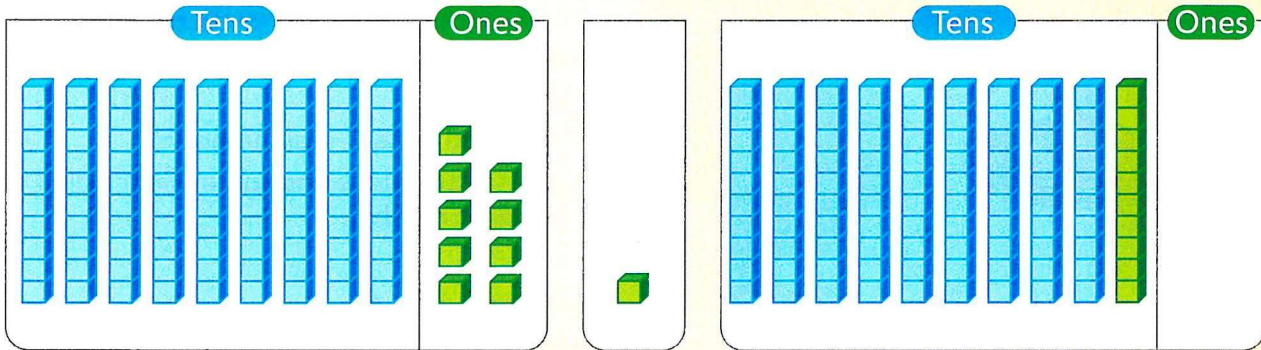- Order a set of 5 numbers from least to greatest or from greatest to least.
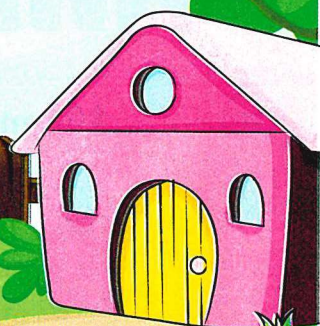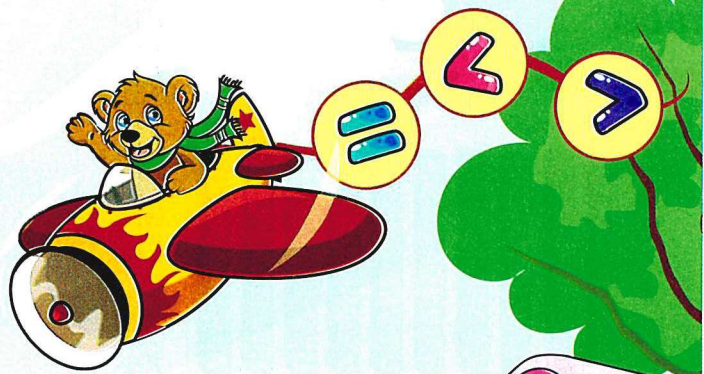
- **3-digit numbers**
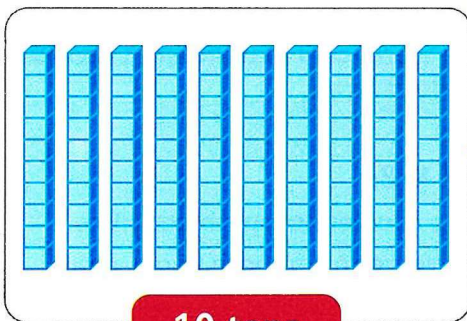- **More of 3-digit numbers**

Learn 1 Understand hundreds

| Tens | Ones | | Tens | Ones |

9 tens , **9** ones ⊕ **1** ⊜ **10** tens , **0** ones
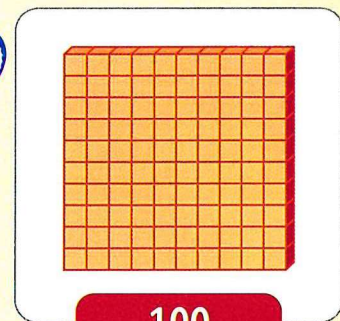
99 is 9 groups of ten and 9 ones.

100 is 10 groups of ten. 100 is 1 **hundred**.

10 tens

10 tens can be grouped into 1 hundred.

100

Check

Write how many hundreds. Write the number. The first one is done for you.

	___2___ hundreds	___200___
	_____ hundreds	_____
	_____ hundreds	_____

Notes for parents
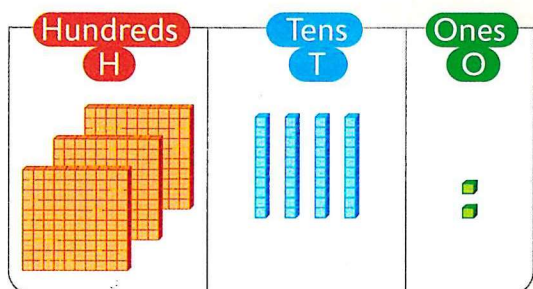- Ask your child to change 10 notes of 10 L.E. to show 1 note of 100 L.E.

Learn 2 Understand place value for 3-digit numbers

The place of a digit in a number tells its value.

What is the value of each digit in 342 ?

> The digit 3 is in the hundreds place, then its value is 300.

Hundreds H	Tens T	Ones O

342

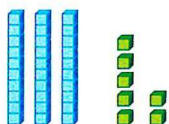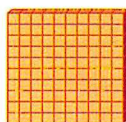| Hundreds H	Tens T	Ones O
3	4	2
300	40	2

342

Check

Write how many hundreds, tens and ones in the HTO chart.

Then write the number. The first one is done for you.

①

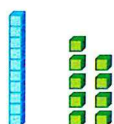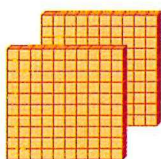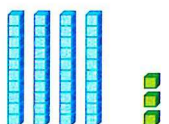| H	T	O
1	3	7

137

②

H	T	O

____

③
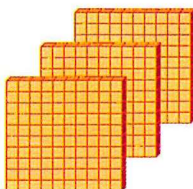
H	T	O

____

④
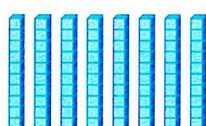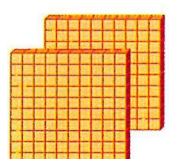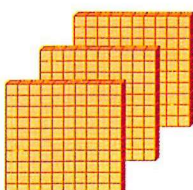
H	T	O

____

• Write a 3-digit number. Point to a digit of it and ask your child to tell you its value.

• Help your child find a 3-digit number on a can, a jar or a package. Ask him/her to tell you how many hundreds, tens and ones are in the number and tell you the value of each digit.

1 **Write how many hundreds. Write the number.**

a.

_____ hundreds _____

b.
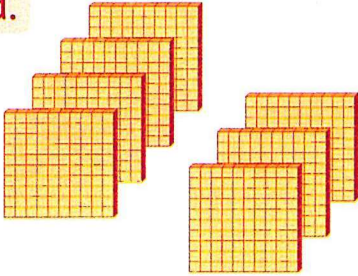
_____ hundreds _____

c.
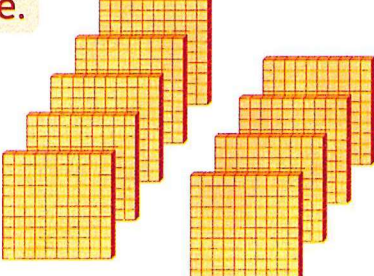
_____ hundreds _____

d.
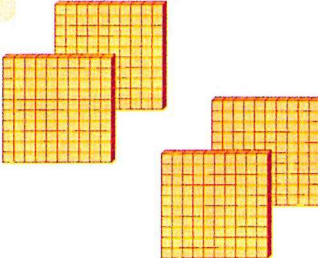
_____ hundreds _____

e.

_____ hundreds _____
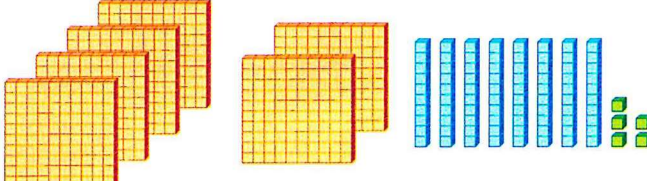
f.

_____ hundreds _____

2 **Write how many hundreds, tens and ones in the HTO chart.**
Then write the number.

a.

H	T	O

_____

b.

H	T	O

_____

c.

H	T	O

_____

**3** Circle the value of the red digit. The first one is done for you.

a. **5 1 4**

(500)   50   5

b. **6 0 8**

8   80   800

c. **1 2 4**

1   10   100

d. **4 7 5**

700   70   7

e. **4 6 3**

300   30   3

f. **2 9 0**

9   90   900

4 Circle the value of the blue digit. The first one is done for you.

a. **2 6 7**

600   (60)   6

b. **1 5 2**

1   10   100

c. **6 4 1**

4   40   400

d. **2 1 8**

8   80   800

e. **5 7 6**

6   60   600

f. **9 0 3**

0   10   100

5 Write the place value of the digit 8 in each. The first one is done for you.

a. 784	*Tens*	b. 863	_____	c. 918	_____
d. 804	_____	e. 581	_____	f. 178	_____
g. 78	_____	h. 87	_____	i. 841	_____
j. 8	_____	k. 841	_____	l. 181	_____

6 Write the value of 7 in each number. The first one is done for you.

a. 572	*70*	b. 587	_____	c. 790	_____
d. 367	_____	e. 271	_____	f. 957	_____
g. 876	_____	h. 704	_____	i. 474	_____
j. 730	_____	k. 167	_____	l. 673	_____

7 Choose the correct answer.
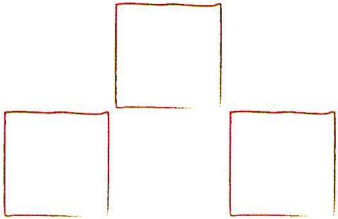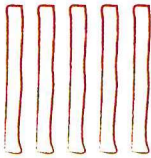
a. The value of the digit 1 in the number 415 is _____ (1 **or** 10 **or** 100)

b. The value of the digit 2 in the number 215 is _____ (2 **or** 20 **or** 200)

c. The place value of the digit 9 in the number 975 is _____
(ones **or** tens **or** hundreds)

d. The value of the digit 0 in the number 705 is _____ (0 **or** 10 **or** 100)

e. The place value of the digit 0 in the number 510 is _____
(zero **or** ones **or** tens)

f. The place value of the digit 1 in the number 810 is _____
(ones **or** tens **or** hundreds)

8 Complete the HTO chart.
The first one is done for you.

Draw ☐ to represent 100

Draw | to represent 10

Draw ▢ to represent 1
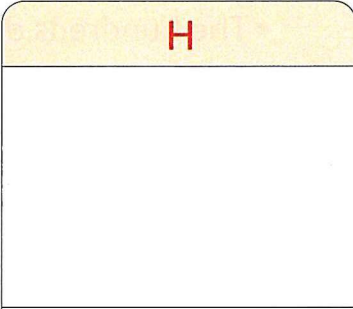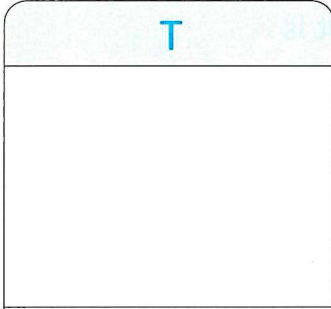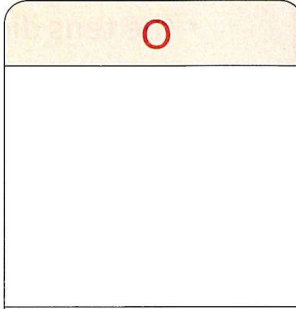
a.

351

H	T	O
	‖‖‖‖‖	▢
Value = _300_	Value = _50_	Value = _1_
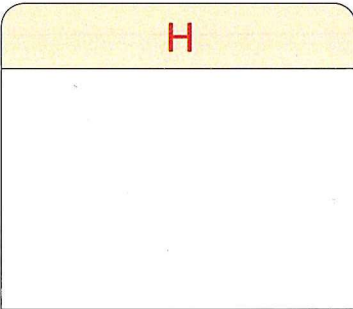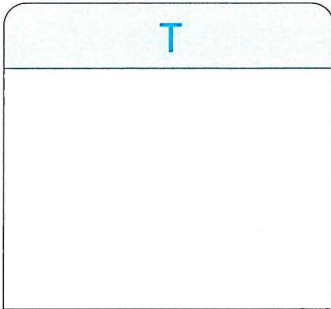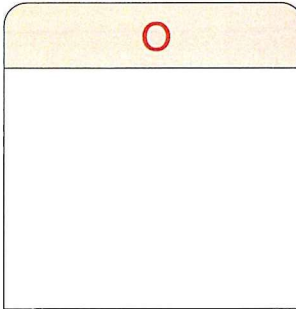
b.

218

H	T	O
Value = _____	Value = _____	Value = _____
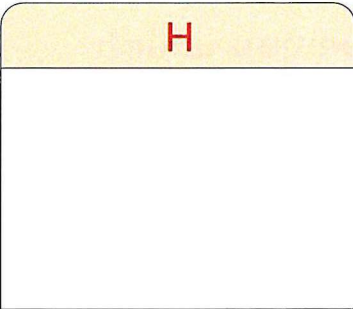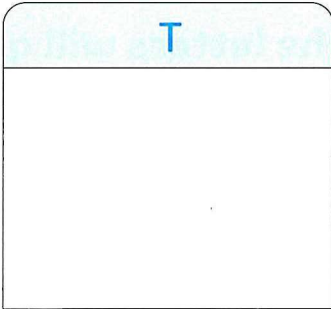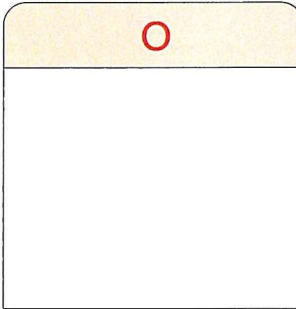
c.

490

H	T	O
Value = _____	Value = _____	Value = _____

d.

108

H	T	O
Value = _____	Value = _____	Value = _____

9 Put (✓) to the correct statement or (✗) to the incorrect statement.

a. The value of the digit 5 in the number 354 is 50.   (   )

b. The value of the digit 8 in the number 837 is 8.   (   )

c. The place value of the digit 3 in the number 713 is tens.   (   )

d. The place value of the digit 0 in the number 304 is ones.   (   )

e. The value of the digit 0 in the number 704 is 10.   (   )

10 What is the number ? The first one is done for you.

a. **What is the number ?**
- The hundreds digit is 5.
- The ones digit is 4.
- The tens digit is 8.

       584

b. **What is the number ?**
- The tens digit is 6.
- The ones digit is 3.
- The hundreds digit is 9.

       _____

c. **What is the number ?**
- The hundreds digit is 8.
- The tens digit is 6.
- The ones digit is 7.

       _____

d. **What is the number ?**
- The tens digit is 0.
- The hundreds digit is 4.
- The ones digit is 2.

       _____

11 What is the secret word ?

⭐ Write **A** if the value of 5 is 5

⭐ Write **B** if the value of 5 is 50

⭐ Write **N** if the value of 5 is 500

The letters will give you which fruit Bassem prefers.

A ___ ___ ___ ___ ___

653   **715**   **502**   **135**   **510**   **5**

Place a smiley face

- Standard form and expanded form
- Numbers in word form
- More numbers in word form
- Writing numbers in different forms

Pre-study

I can write the numbers in words.
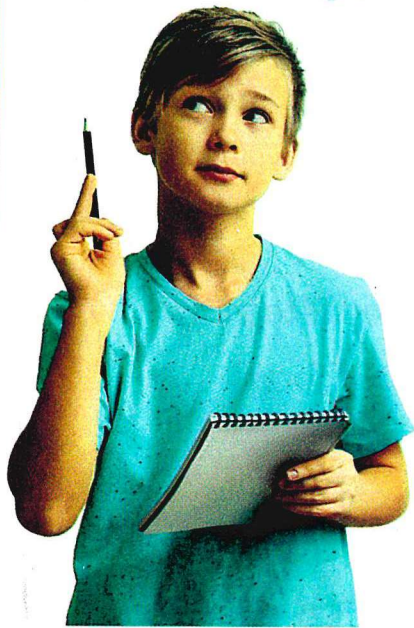
	Ones	Numbers from 11 to 19		Tens	
1	one	11	eleven	10	ten
2	two	12	twelve	20	twenty
3	three	13	thirteen	30	thirty
4	four	14	fourteen	40	forty
5	five	15	fifteen	50	fifty
6	six	16	sixteen	60	sixty
7	seven	17	seventeen	70	seventy
8	eight	18	eighteen	80	eighty
9	nine	19	nineteen	90	ninety

Check

Write the numbers in words.

a. 7 _____	b. 50 _____
e. 1 _____	f. 15 _____
i. 9 _____	j. 8 _____
m. 2 _____	n. 11 _____
q. 90 _____	r. 6 _____

c. 17 _____	d. 30 _____
g. 14 _____	h. 40 _____
k. 60 _____	l. 13 _____
o. 80 _____	p. 12 _____
s. 16 _____	t. 10 _____

Notes for parents
- Help your child write the previous numbers in words.

You can write numbers in different ways.
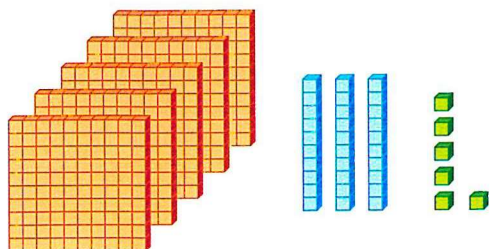
__5__ hundreds __3__ tens __6__ ones		

Standard form : 536
Expanded form : 500 + 30 + 6
Word form : Five hundred thirty-six

Example ①

Write in standard form.

a. 700 + 50 + 4

b. 800 + 9

c. 600 + 20

d. Five hundred fifteen

e. Six hundred seventy-eight

f. Four hundred forty

Solution ✓

a. 754

b. 809

c. 620

d. 515

e. 678

f. 440

Example ②

Write in word form.

a. 327

b. 901

c. 400 + 70 + 8

d. 160

Solution ✓

a. Three hundred twenty-seven

b. Nine hundred one

c. Four hundred seventy-eight

d. One hundred sixty

Notes for parents
• Help your child write a zero when there are no tens or no ones.
• Ask your child to open this book with more than one hundred pages at random, then ask him/her to write this number in expanded form and in word form.

Example ③

Write in expanded form.

a. 784

b. 403

c. Eight hundned , thirty-one

d. Three hundred sixty

Solution ✓

a. 700 + 80 + 4

b. 400 + 3

c. 800 + 30 + 1

d. 300 + 60

Check 🔍

a. **Write in expanded form.**

1. 374 —————————————————

2. 802 —————————————————

3. 650 —————————————————

4. Two hundred seventy-eight ——————————

b. **Write in word form.**

1. 782 —————————————————

2. 316 —————————————————

3. 900 + 40 + 5 ——————————————

4. 500 + 90 ————————————————
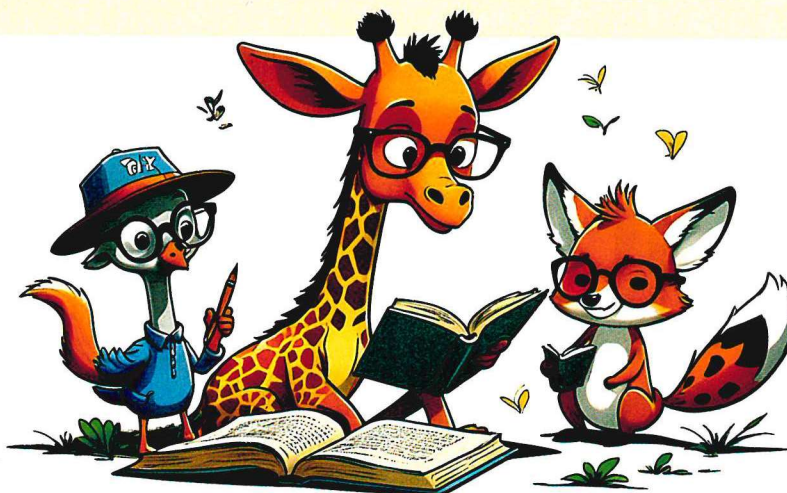
• Help your child know what (700 + 6 = 706) and (500 + 30 = 530)

- **Standard form and expanded form**
- **Numbers in word form**
- **More numbers in word form**
- **Writing numbers in different forms**

1 **Write the number in words.**

a. 3 ——————

b. 15 ——————

c. 8 ——————

d. 7 ——————

e. 11 ——————

f. 20 ——————

g. 12 ——————

h. 4 ——————

i. 100 ——————

j. 5 ——————

k. 17 ——————

l. 18 ——————

m. 16 ——————

n. 13 ——————

o. 6 ——————

p. 30 ——————

q. 40 ——————

r. 50 ——————

s. 9 ——————

t. 19 ——————

u. 70 ——————

v. 14 ——————

w. 60 ——————

x. 10 ——————

y. 90 ——————

z. 80 ——————

2 **Write the number in different ways.**

a.
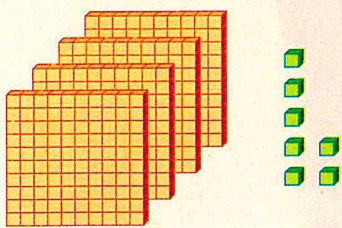
—————— hundreds —————— tens —————— ones

Expanded form : —————— + —————— + ——————

Standard form : ——————

Word form : ——————————————

b.
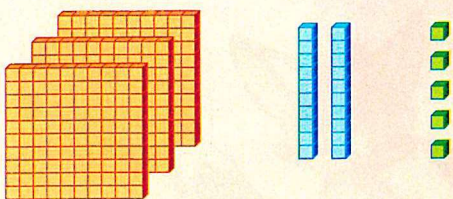
—————— hundreds —————— tens —————— ones

Expanded form : —————— + —————— + ——————

Standard form : ——————

Word form : ——————————————

c.
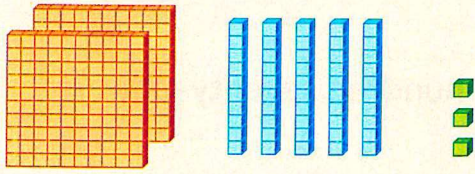
_____ hundreds _____ tens _____ ones

Expanded form : _____ + _____ + _____

Standard form : _____

Word form : _____

3 Write in expanded form.

253 = _____ + _____ + _____

638 = _____ + _____ + _____

891 = _____ + _____ + _____

572 = _____ + _____ + _____

444 = _____ + _____ + _____

706 = _____ + _____ + _____

596 = _____ + _____ + _____

177 = _____ + _____ + _____

219 = _____ + _____ + _____

922 = _____ + _____ + _____

340 = _____ + _____ + _____

900 = _____ + _____ + _____

4 Write in standard form.

300 + 70 + 8 = _____

700 + 40 + 7 = _____

100 + 20 + 3 = _____

800 + 10 + 9 = _____

200 + 70 + 2 = _____

600 + 30 = _____

500 + 50 = _____

500 + 80 + 7 = _____

200 + 30 + 5 = _____

900 + 60 + 1 = _____

400 + 50 + 6 = _____

300 + 10 + 1 = _____

800 + 80 + 8 = _____

400 + 4 = _____

5 Write in standard form.
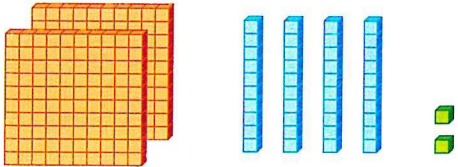
a. Four hundred thirty-five _____

b. Six hundred seventy-one _____

c. Eight hundred fifty _____

d. Seven hundred twenty-four _____

e. Three hundred ninety-eight _____

f. Nine hundred seventeen _____

g. Five hundred six _____

h. 2 hundreds + 6 tens + 9 ones _____

i. 9 hundreds + 8 ones + 4 tens _____

j. 3 tens + 7 hundreds + 3 ones _____

k. 3 hundreds + 5 tens _____

l. 6 hundreds + 6 ones _____

m. 4 ones + 2 hundreds _____

n. 7 tens + 8 hundreds _____

6 Write in word form.

a. 735 _____

b. 523 _____

c. 701 _____

d. 817 _____

e. 211 _____

f. 579 _____

g. 412 _____

h. 950 _____

i. 658 _____

j. 342 _____

k. 8 hundreds , 6 tens , 7 ones _____

l. 1 hundred , 8 tens _____

m. 4 hundreds , 7 tens , 5 ones _____

n. 3 hundreds , 9 ones _____
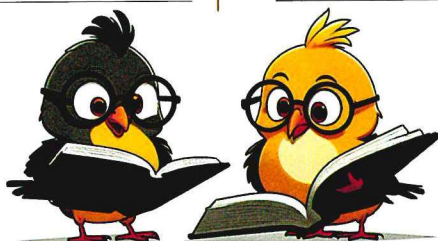
7 **Write the number in another way.**

a.

_____

b.

600 + 70 + 5

_____

c.

7 hundreds 7 tens 7 ones

_____

d.

860

_____

e.

428

_____

f.

500 + 70

_____

g.

900 + 3

_____

h.

One hundred sixteen

_____

Place a smiley face

- **Comparing numbers**
- **More of comparing numbers**

Learn **How to compare numbers ?**

- When comparing 3-digit numbers, compare the hundreds first.

If the hundreds are the same, compare the tens.	If the hundreds and tens are the same, compare the ones.	If the hundreds, tens and ones are the same, then the numbers are equal.
40 is greater than 30	3 is less than 8	247 is equal to 247
So, 241 is greater than 234	So, 123 is less than 128	
241 > 234	123 < 128	247 = 247
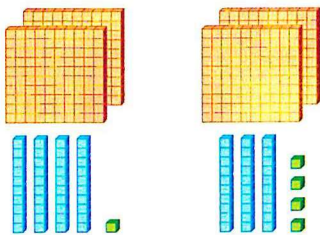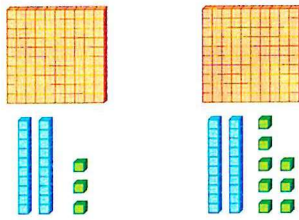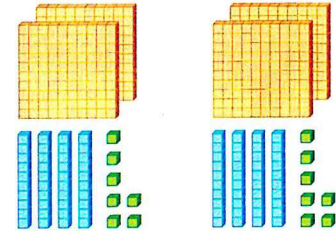
- Use the value of each digit to compare numbers.

First compare the hundreds digits.	If the hundreds digits are the same, compare the tens digits.	If the tens digits are the same, compare the ones digits.
672 675	672 675	672 675
		2 ones < 5 ones
6 hundreds = 6 hundreds	7 tens = 7 tens	So, 672 is less than 675
		672 < 675

- When comparing 3-digit number and 2-digit number, the 3-digit number is the greater.

$$352 \; \bigcirc{>} \; 98$$

352 has 300 hundreds but 98 has 0 hundreds.

Check

Compare, write > , < or =.

a. 735 ◯ 752

b. 371 ◯ 79

c. 425 ◯ 425

Notes for parents
- Help your child know that : a three-digit number is greater than a two-digit number, and a two-digit number is greater than a one-digit number.

1 Compare, write > , < or =. The first one is done for you.

a.

140 **<** 240

b.

342 ◯ 342

c.

431 ◯ 413

d.

212 ◯ 215

2 Compare, write > , < or =.

a. 725 ◯ 752

c. 154 ◯ 154

e. 45 ◯ 178

g. 391 ◯ 9

i. 187 ◯ 211

k. 112 ◯ 79

m. 99 ◯ 618

o. 714 ◯ 174

q. 47 ◯ 129

b. 572 ◯ 376

d. 38 ◯ 100

f. 512 ◯ 89

h. 512 ◯ 521

j. 75 ◯ 318

l. 315 ◯ 315

n. 94 ◯ 200

p. 762 ◯ 760

r. 218 ◯ 78

I put two dots next to 240 because it is the greater number and one dot next to 140 because it is the smaller one, and then I connect them.

240 **>** 140

3 Compare, write > , < or =.

a. 4 ones ◯ 2 tens

b. 7 hundreds ◯ 700

c. 8 tens ◯ 3 hundreds

d. 4 hundreds ◯ 9 ones

e. 9 tens ◯ 1 hundred

f. 200 + 70 + 1 ◯ 200 + 40 + 1

g. 500 + 70 + 1 ◯ 625

h. Two hundred fifteen ◯ 250

i. 3 tens + 7 ones ◯ 1 hundred + 2 ones

j. Six hundred forty ◯ 640

4 Write the number.

a. Write the greatest and the smallest number formed from : 7 , 8 , 3

The greatest number is ——— , the smallest number is ———

b. Write the greatest and the smallest number formed from : 3 , 9 , 6

The greatest number is ——— , the smallest number is ———

c. Write the greatest and the smallest number formed from : 7 , 2 , 5

The greatest number is ——— , the smallest number is ———

d. Write the greatest and the smallest number formed from : 1 , 6 , 0

The greatest number is ——— , the smallest number is ———

e. Write the greatest and the smallest number formed from : 7 , 0 , 5

The greatest number is ——— , the smallest number is ———

f. Write the greatest 3-digit number ———

g. Write the smallest 3-digit number ———

h. Write the greatest 3-different digit number ———

i. Write the smallest 3-different digit number ———

j. Write the greatest 3-same digit number ———

k. Write the smallest 3-same digit number ———

l. Write the greatest 3-digit even number ———

m. Write the smallest 3-digit odd number ———

5 📖 **Write a number to get a correct statement.**

a. 576 < —————

b. 907 < —————

c. 100 > —————

d. ————— < 891

e. 126 < —————

f. 700 + 1 = —————

6 **Put (✓) to the correct statement or (✗) to the incorrect statement.**

a. 782 (>) 395   (   )

b. 97 (>) 102   (   )

c. 7 tens (>) 6 hundreds   (   )

d. 500 + 30 + 7 (<) 500 + 40 + 9   (   )

e. 300 + 10 + 8 (<) three hundred eighteen   (   )

f. The greatest number formed from 3 , 0 , 9 is 903 (   )

7 **Choose the correct answer.**

a. 749 > —————   (379 **or** 814 **or** 760)

b. 371 < —————   (299 **or** 370 **or** 375)

c. 800 + 30 + 7 > —————   (923 **or** 823 **or** 900)

d. Seven hundred thirty-nine < —————   (740 **or** 730 **or** 699)

e. The smallest number formed from 3 , 8 , 1 is —————

(183 **or** 138 **or** 831)

f. The greatest number formed from 0 , 7 , 6 is —————

(706 **or** 760 **or** 670)

g. 3 hundreds < —————   (432 **or** 196 **or** 99)

Place a smiley face

- **Ordering numbers**
- **More of ordering numbers**

Learn 1 Ordering from least to greatest

You can order numbers from least to greatest or from greatest to least.

Put these numbers in order from least to greatest. (The ascending order).

777   463   400   500   775

① Compare the hundreds digits.

463   400   500   777   775

② If the hundreds digits are the same, compare the tens digits.

400   463   500   777   775

③ If the tens digits are the same, compare the ones digits.

400   463   500   775   777

Check

Write the numbers in order from least to greatest.

Ascending order

72 , 5 , 27 , 52 , 10

Order is : ____ , ____ , ____ , ____ , ____

745 , 72 , 15 , 200 , 4

Order is : ____ , ____ , ____ , ____ , ____

926 , 713 , 198 , 502 , 183

Order is : ____ , ____ , ____ , ____ , ____

Notes for parents
- Remind your child that a one-digit number is less than a two-digit number, and a two-digit number is less than a three-digit number.

Learn 2 Ordering from greatest to least

Put these numbers in order from greatest to least.
(The descending order).

| 251 | 547 | 395 | 257 | 372 |

1 Compare the hundreds digits.

| 547 | 372 | 395 | 251 | 257 |

2 If the hundreds digits are the same, compare the tens digits.

| 547 | **395** | **372** | 251 | 257 |

3 If the tens digits are the same, compare the ones digits.

| 547 | 395 | 372 | **257** | **251** |

Check 🔍

Write the numbers in order from greatest to least.

Descending order

(7) , (12) , (25) , (47) , (29)

Order is : _____ , _____ , _____ , _____ , _____

(19) , (82) , (130) , (10) , (210)

Order is : _____ , _____ , _____ , _____ , _____

(273) , (499) , (500) , (25) , (167)

Order is : _____ , _____ , _____ , _____ , _____

(345) , (492) , (572) , (490) , (333)

Order is : _____ , _____ , _____ , _____ , _____

• Remind your child that a three-digit number is greater than a two-digit number, and a two-digit number is greater than a one-digit number.

Learn 3 Ordering numbers in different forms

500 + 30 + 7

two hundred forty-five

745

expanded form   word form   standard form

- The greatest number is : 745
- The smallest number is : two hundred forty-five.
- The ascending order is : two hundred forty-five , 500 + 30 + 7 , 745
- The descending order is : 745 , 500 + 30 + 7 , two hundred forty-five.

Check

Circle the greatest number and underline the smallest number.

300 + 50 + 9   ,   six hundred twenty-one   ,   159

Ninety-five   ,   710   ,   400 + 1

379   ,   five hundred eleven   ,   500 + 10

800   ,   nine hundred one   ,   800 + 20 + 9

Five hundred thirty-eight   ,   537   ,   500 + 30 + 9

Notes for parents
• Before ordering numbers, ask your child to determine the greatest number and the smallest number.

1 Arrange from the smallest to the greatest "ascending order".

a. 📖 17 , 9 , 2 , 3 , 8

Order is ——— , ——— , ——— , ——— , ———

b. 32 , 91 , 57 , 14 , 52

Order is ——— , ——— , ——— , ——— , ———

c. 📖 11 , 156 , 4 , 23 , 17

Order is ——— , ——— , ——— , ——— , ———

d. 14 , 79 , 177 , 191 , 24

Order is ——— , ——— , ——— , ——— , ———

e. 521 , 421 , 323 , 452 , 574

Order is ——— , ——— , ——— , ——— , ———

f. 371 , 47 , 827 , 99 , 315

Order is ——— , ——— , ——— , ——— , ———

g. 93 , 517 , 733 , 15 , 711

Order is ——— , ——— , ——— , ——— , ———

h. 700 , 707 , 777 , 770 , 77

Order is ——— , ——— , ——— , ——— , ———

2 Arrange from the greatest to the smallest "descending order".

a. 📖 4 , 13 , 29 , 33 , 23

Order is ——— , ——— , ——— , ——— , ———

b. 📖 28 , 4 , 38 , 241 , 34

Order is ——— , ——— , ——— , ——— , ———

c. 103 , 24 , 779 , 207 , 729

Order is ——— , ——— , ——— , ——— , ———

d. 900 , 990 , 909 , 999 , 99

Order is ——— , ——— , ——— , ——— , ———

e. 374 , 397 , 456 , 534 , 217

Order is ——— , ——— , ——— , ——— , ———

f. 472 , 522 , 844 , 572 , 537

Order is ——— , ——— , ——— , ——— , ———

g. 624 , 426 , 642 , 264 , 462

Order is ——— , ——— , ——— , ——— , ———

3 **Arrange from the smallest to the greatest "ascending order".**

a. Eight hundred fifteen , 700 + 50 + 2 , 850

Order is ——— , ——— , ———

b. Seventy-five , 715 , 700 + 5

Order is ——— , ——— , ———

c. 461 , four hundred sixteen , 600 + 10 + 6

Order is ——— , ——— , ———

d. 300 + 20 + 9 , 299 , three hundred thirty-three

Order is ——— , ——— , ———

e. 427 , 500 + 70 + 8 , four hundred twenty-one

Order is ——— , ——— , ———

f. One hundred forty-seven , 127 , 100 + 70 + 4

Order is ——— , ——— , ———

4 Arrange from the greatest to the smallest "descending order".

a. 830 , seven hundred eighty , 900 + 3

Order is ———— , ———— , ————

b. Five hundred thirty-eight , 79 , 500 + 80 + 3

Order is ———— , ———— , ————

c. 619 , 600 + 20 , six hundred nine

Order is ———— , ———— , ————

d. Three hundred fifteen , 350 , 300 + 50 + 1

Order is ———— , ———— , ————

e. 800 + 30 + 4 , 843 , eight hundred thirty-six

Order is ———— , ———— , ————

f. 479 , 400 + 80 + 1 , five hundred eleven

Order is ———— , ———— , ————

5 Write 4 numbers that can be formed from the digits 7 , 3 , 8 and arrange them from the smallest to the greatest.

The numbers are ———— , ———— , ———— , ————

Order is ———— , ———— , ———— , ————

6 Write 4 numbers that can be formed from the digits 4 , 5 , 3 and arrange them from the greatest to the smallest.

The numbers are ———— , ———— , ———— , ————

Order is ———— , ———— , ———— , ————

Place a smiley face