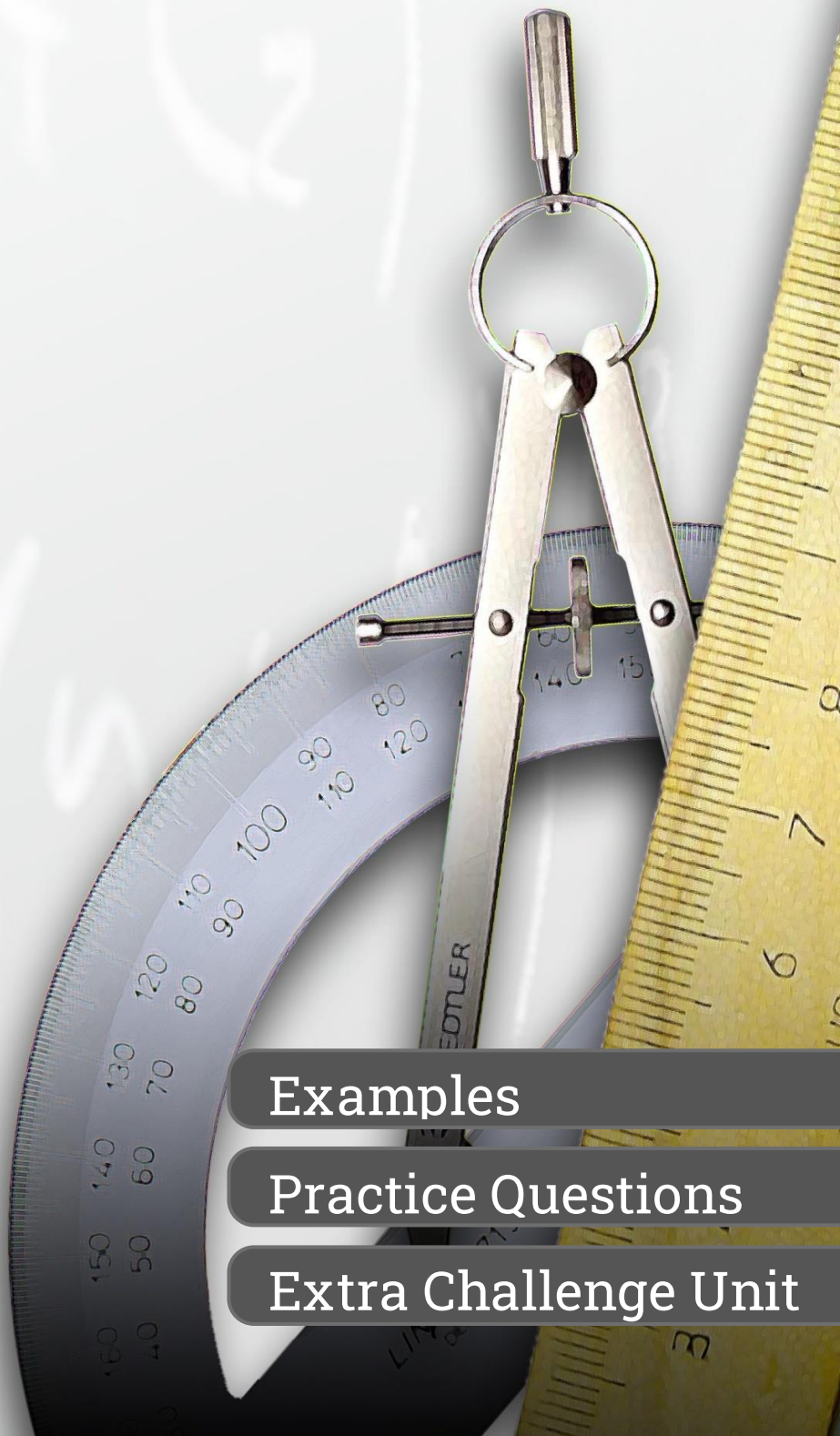
Grade 3 – LESSON 2

Math Practice Sheets

Learning Numeration Part II



Examples

Practice Questions

Extra Challenge Unit

Student Name

_____

Unit 2.1

Comparing Quantities in Word Problems

Example

Compare pennies

Monica has 321 pennies.

David has432pennies.

Who has more pennies?

321 < 432

You know 3 < 4,

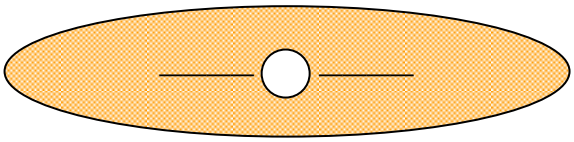
So, 321 < 432

∴ David has more pennies than Monica.

Exercise

1. Compare and solve.

a) Joe has 785 mangoes.
Grace has 783 apples.
Who has less pieces of fruit?



_____ has less pieces of fruit.

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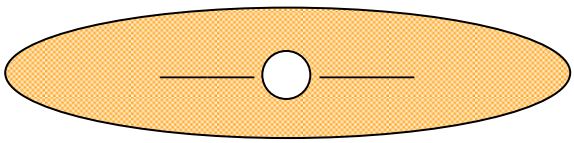
b) Martina's nursery has 2,345flowers.
Jesse's nursery has 2,351flowers.

Whose nursery has more flowers?



_____ nursery has more flowers.

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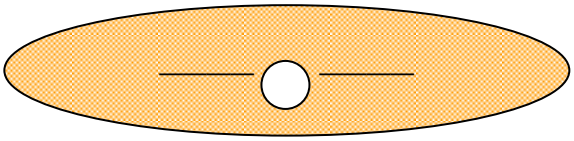
c) There are 6,780 math books in a school.
There are 6,807 math books in a college.

Where are the fewer books?



_____ has fewer books.

Unit 2.1

Comparing Quantities in Word Problems

Exercise

Solve the problems below.

2. Rosa reads 857 pages. Josh reads 799 pages.
   Who reads the most pages?

3. Fill in the circle with the given selection.

20 + 50 Sweets	◯	30 + 40 Sweets

a) <

b) =

c) >

d) ≠

4. Craig counts 2,628 stars in a sky.
   Zach counts 2,630 stars in the sky.

   Who counts fewer stars? _____

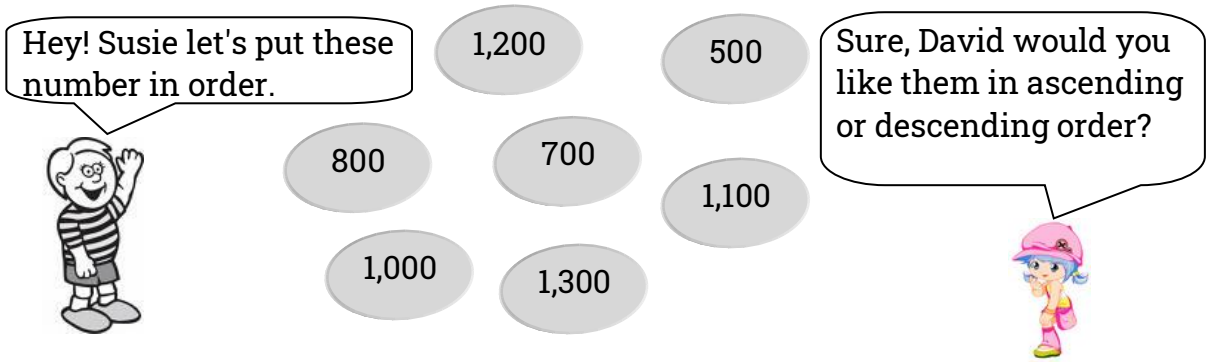
5. Yolanda traveled 5,370 miles last year. Martina traveled 5,369 miles this year.

   Who traveled more miles? _____

Unit 2.2

Number Order

Example



We can arrange numbers in two ways.

Arranging numbers from the smallest to the largest is called ascending.

Arranging numbers from the largest to the smallest is called descending.

Exercise

1. Arrange the numbersas requested.

Ascending order

a) 3,962 3,941 3,926

b) 2,790 2,731 2,761

c) 1,303 1,333 1,330

d) 4,579 4,591 4,505

Descending order

e) 8,943 8,919 8,991

f) 6,570 6,527 6,552

g) 5,608 5,698 5,635

h) 7,846 7,825 7,883

Unit 2.2

Number Order

Exercise

Solve the problems below.

2. There are 1,245 cars, 1,425 buses, and 1,150 motor cycles on the dealer's lot. Rearrange the number of vehicles in descending order.

3. Eva has $1,253. Riva has $1,235. Clare has $1,353.Which selection puts these monies in ascending order?

a) $1,253 $1,235$1,353 b) $1,235 $1,253$1,353

d) $1,353 $1,253$1,235 d) $1,253 $1,235$1,353

4. Luna has fewer than $1,649. She has more than $1,647 dollars. How many dollars does Luna have?

5. The table shows the cost of laptop, Computer and hand watch.

Rearrange the costs in Ascending order.

_____, _____, _____

Objects	Price
Laptop	$1,927
Computer	$1,327
Hand watch	$1,729

Unit 2.3

Introducing Decimals for Money

Example

These are the coins and bills we use to buy things.


$5 or $5.00


$1 or $1.00


50¢or $0.50


25¢or $0.25


10¢or $0.10


5¢or $0.05


1¢or $0.01

How much money do you have in the above?

$6.91 Six dollars and ninety-one cents.

(A decimal point separates dollars and cents.)

You can show money amounts in more than one way.

Exercise

1. What is the value in dollars and cents for each of the problems?

a)

b)

c)

d) 3 one-dollar bill, 2 half dollars, 4 quarters, 1 dime, and 3 pennies

e) 2 five-dollar bills, 5 one-dollar bill, 2 quarters, 5 dimes, and 2 pennies

Unit 2.3

Introducing Decimal for Money

Exercise

2. Compare the amounts using '>', '<', or '='.

a) $2.05 ◯ one-dollar bill, 3 pennies

b) 1 five dollar bill, 2 one-dollar bill, 3 dimes ◯ $6.99

c) 8 half dollars ◯ 3 one-dollar bill, 4 quarters

d) $3.58 ◯ 1 one-dollar bill, 4 half dollars, 5 quarters, 10 nickel

e) 1 five dollar bill, 4 quarters ◯ 5 one-dollar bill, 7 dimes

Unit 2.3

Introducing Decimal for Money

Exercise

Solve the problems below.

3. Fred has the following coins and bills.
How much are they all worth?

4. $12.50 means ____ dollars and ____ cents.

a) 12 and 5

b) 50 and 12

c) 5 and 12

d) 12 and 50

5. The cost of a doll is $4.25.
List two different groups of bills and coins that your could use to buy the doll.

6. Elisa wants to buy three stickers. The stickers each cost 20 cents.
List the coins she could use to pay for them.

a) Use only half dollars and nickels.

b) Use only quarters and dimes.

Unit 2.4

Learning What Changes to Expect

Example

A dictionary costs $3.36.
If you give $4 to the shopkeeper, how much change should?
you get back?

Cost → Amount paid

$3.36 → $3.40 → $3.50 → $4.00 →

Your change should be $0.64 or 64¢.

Exercise

1. List coins and bills to make the change. Write the amount of the change.

a)

Cost	Amount paid
$1.23	$2.00

b)

Cost	Amount paid
$6.82	$10.00

c)

Cost	Amount paid
$2.57	$5.00

Learning What Changes to Expect

Exercise

d)

Cost	Amount paid
$0.57	$1.00

e)

Cost	Amount paid
$4.39	$5.00

f)

Cost	Amount paid
$3.48	$5.00

g)

Cost	Amount paid
$8.26	$10.00

h)

Cost	Amount paid
$7.91	$10.00

Unit 2.4

Learning What Changes to Expect

Exercise

Solve the problems below.

2. Jim bought a roll of film that costs $2.69.
He paid $5 bill. How much change should he get back?

3. A storybook costs $6.50. You pay for it with a $10 bill.
Which should be your change?

a) $3.05 b) $4.00

c) $3.50 d) $3.00

4. Mr. Hwan bought a calculator that cost $8.99. He paid with a $10 bill.
How much change should he get?

5. Mrs. Lopez bought a candy bar that cost $2.39. She paid with a
$5 bill. List the coins and bills that could be her change.

Unit 2.5 Skip Counting by 10, 20, 50, and 100 in Ascending and Descending Order

Example

Look at the pattern.

310, 320, 330, 340, 350, ...
Numbers are increasing by 10.

990, 970, 950, 930, 910, ...
Numbers are decreasing by 20.

50, 100, 150, 200, 250,.....
Numbers are increasing by 50.

900, 800, 700, 600, 500,.....
Numbers are decreasing by 100.

Exercise

1. Complete the patterns by skip counting.

a)	535	545			
b)	970	990			
c)	450	500			
d)		9,400	9,500		
e)		6,915	6,925		
f)			8,150	8,200	

Unit 2.5

Skip Counting by 10, 20, 50, and 100 in Ascending and Descending Order

Exercise

Solve the problems below.

2. Dustin scored 15 points in the first quarter of a basketball game. He scored 25 points in second quarter and 45 points in last quarter. Following the same pattern, how many points did he score in the third quarter?

3. Find the missing number.

870, 820, _____, 720, 670

a) 760 b) 770

c) 780 d) 700

4. The Enrollmentina School was 725 in 2006. In 2007, the enrollment rose to 825. What would be the number of students of the school in 2009 if the pattern continues?

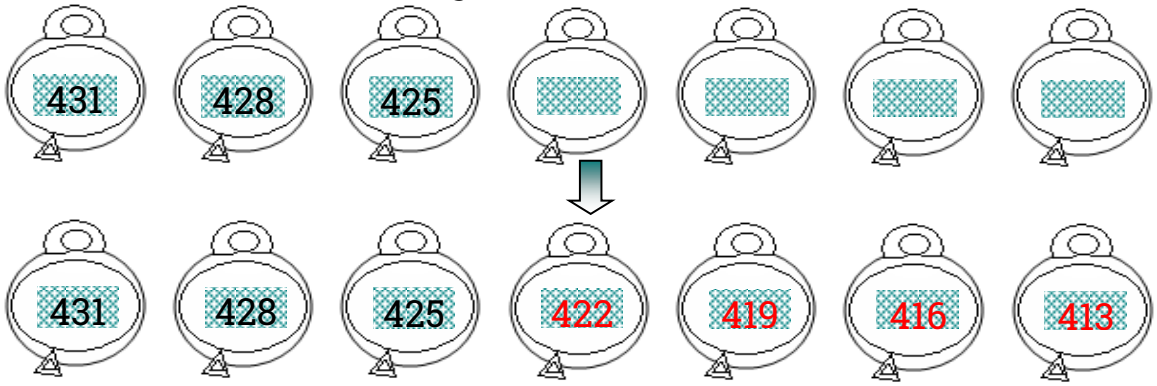
5. Blair counted 666 buses on the road on Sunday. He counted 777 buses on Monday and 999 buses on Wednesday. The number of buses he counted on Tuesday was greater than Monday but less than Wednesday. Write the number of buses counted on Tuesday according to observed pattern?

Unit 2.6

Skip Counting Puzzles

Example

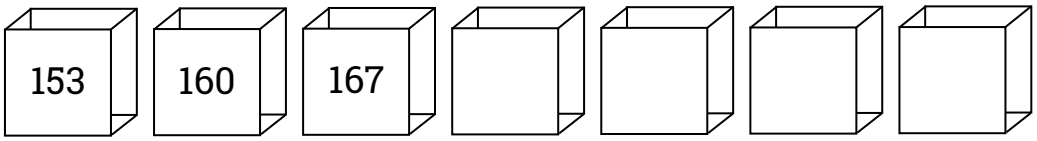
What numbers are missing on the bells?



Rule: Numbers are decreasing by 3.

Exercise

1. What numbers are missing on the boxes?



Numbers are _____.

2. What numbers are missing on the clouds?

Numbers are _____.

3. What numbers are missing on the books?

Numbers are _____.

Unit 2.6

Skip Counting Puzzles

Exercise

4. Tick(√)the correct answer.

a) Mara started counting from 215. She skip counted until she reached 227. Could she have been counting by three?

☐ Yes ☐ No

b) Ronny started counting from 522. He skip counted until he reached 541. Could he have been counting by four?

☐ Yes ☐ No

c) Luisa started counting from 811. She skip counted until she reached 836. Could she have been counting by five?

☐ Yes ☐ No

5. Complete the following pattern.

a) 315 325 335 345 ____ ____ ____

b) 700 650600 550 ____ ____ ____

c) 2,329 2,4292,529 2,629 ____ ____ ____

d) 6,000 ____ ____ ____ 8,000 8,500 9,000

Unit 2.6

Skip Counting Puzzles

Exercise

Solve the problems below.

6. There are 101 apples, 202 oranges, and 404 bananas. If the number of mangoes is greater than the number of oranges and less than the number of bananas, how many mangoes are there according to the pattern?

   There are ____mangoes.

7. Find the missing number.

   1,250 1,000 ____ 500 250

   a) 750 b) 850

   c) 950 d) 650

8. A library has 990 storybooks, 880 poem books, and 660 science books. If the number of math books are less than the number of poem books and greater than the number of science books,how many math books are in the library according to the pattern?

   ____ math books

9. Find the next two numbers which follows the pattern “sum of previous two numbers is the next number.”

   1, 2, 3, 5, 8, 13, 21, ____, ____

Unit 2.7

Making an Organized List

Example

List all the 3-digit numbers that fit these clues.

- The hundreds digit is less than 2.
- The digit in the tens place is greater than 8.
- It is an odd number.

The hundred digits is 1. ↑ Less than 2

The tens digit is 9. ↑ Greater than 8

The ones digit is 1, 3,5,7,9. ↑ odd numbers

Organized list of all the possible numbers

191 197
193 199
195

Exercise

1. List all the 3 digit numbers that fit these clues.

   - The digit in the hundreds is less than 5 and greater than 3.
   - The digit in the tens place is even.
   - The digit in the ones place is 7.

2. List all the 4 digit numbers that fit these clues.

   - It is an even number.
   - The thousands digit is greater than 8.
   - The hundreds digit is less than 3.
   - The tens digit is greater than 6 and less than 8.

Unit 2.7

Making Organized List

Exercise

Solve the problems below.

3. Ito has a banana, an apple, a mango, and an orange. He told his sister to take two fruits. How many different pairs of fruits can his sister take? List the pairs.

4. I am thinking of a three digit odd number. The hundreds digit is greater than 6. The tens digit is less than 5. What is that number?

a) 920 b) 837

c) 714 d) 873

5. You bought an eraser for $1.50 and marker for $2.50. How much money did you spend?

6. There are 4 books: Math, Science, English, and History. How many different pairs can be made from the 4 books? List all the possibilities (Do not the name the same pair more than once).

Unit 2.8

Math Challenges

Exercise

1.

37 + 42 Apples	52 + 26 Mangoes

Do we have more apples or mangoes? _____

2. The given table shows the lengths of three rivers.

River	Length
Missouri	2,315
Colorado	1,450
Mississippi	2,348

List the rivers from shortest to longest.

3. Write the total value in dollars and cents.

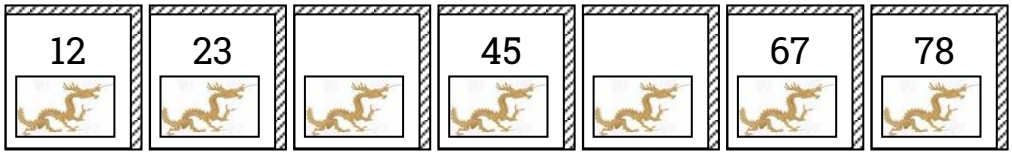
4. Alicia bought a calculator for $12.75.
She paid with a $20 bill. How much change should she get back?

Math Challenges

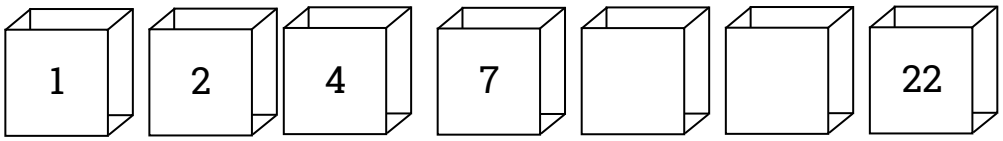
Exercise

5. Look at the pattern and fill in the missing numbers.

a)



b)



c) ____ ____ ____ 606 707 ____ ____

d) 987 876 765 654 ____ ____ ____

6. List all the numbers that fit these clues.

- They are all 4 digit odd numbers.
- The thousands digit is greater than 8.
- The hundred digits is less than 3.
- The digit in the tens place is less than 9 and greater than 5.

7. There are a book, a pen, a copy, and a bag.
You can take any two things.
List each of the pairs of items that you can take.

Congratulations!

You have finished a lesson. You should be very proud of yourself.
Now it is time to progress to the next lesson.
Your next assignment is notated by a green arrow.

Grade 3 Answer Key of Lesson 2

Unit 2.1

1. a) 785>783; Grace b) 2,345<2,351; Jesse c) 6,780<6,807; school
2. Rose 3. 70=70 4. Craig 5. Yolanda

Unit 2.2

1. a) 3,926; 3,941; 3,962 b) 2,731; 2,761; 2,790 c) 1,303; 1,330; 1,333
   d) 4,505; 4,579; 4,591 e) 8,991; 8,943; 8,919 f) 6,570; 6,552; 6,527
   g) 5,698; 5,635; 5,608 h) 7,883; 7,846; 7,825 2. 1,425; 1,245; 1,150
3. b 4. $1,648
5. $1,327; $1,729; $1,927

Unit 2.3

1. a) $2.46 = 2 dollars and 46 cents b) 1 dollar 67 cents = $1.67
   c) 7 dollars and 25 cents = $7.25 d) 5 dollars and 13 cents = $5.13
   e) 16 dollars and 2 cents = $16.02 2. a) > b) >
   c) = d) < e) > 3. $7.65 4. d
6. a) 1 half dollar + 2 nickels b) 2 quarts + 1 dime

Unit 2.4

1. a) $0.77 = 1 half dollar, 1 quarter, and 2 penny
   b) $3.18 = 3 one dollar, 1 dime, 1 nickel, and 3 penny
   c) $2.43 = 2 one dollar, 1 quarter, 1 dime, 1 nickel, and 3 penny
   d) $0.43 = 1 quarter dollar, 1 dime, 1 nickel, and 3 penny
   e) $0.61 = 1 half dollar, 1 dime, and 1 penny
   f) $1.52 = 1 dollar, 1 half dollar, and 2 penny
   g) $1.74 = 1 one dollar, 1 half dollar, 2 dime, and 4 penny
   h) $2.09 = 2 dollar, 1 nickel, and 4 penny
2. $2.31 3. c 4. $1.1 5. $2.61

Unit 2.5

1. a) 555, 565, 575 b) 1,010; 1,030; 1,050 c) 450, 600, 650
   d) 9,300; 9,600; 9,700 e) 6,905; 6,935; 6,945 f) 8,050; 8,100; 8,200
2. 35 3. b 4. 925 5. 888

Unit 2.6

1. 174,181,188,195 2. 1,800; 1,700; 1,600; 1,300; 1,200
3. 375,390,405,420 4. a) yes b) no c) yes
5. a) 355,365,375 b) 500,450,400 c) 2,729; 2,829; 2,929
   d) 6,500; 7,000; 7,500 6. 303 7. a 8. 770 9. 34, 55

Unit 2.7

1. 427; 447; 467; 487
2. 9,272; 9,274; 9,276; 9,278; 9,172; 9,174; 9,176; 9,178
3. 6 4. b 5. $4.0 6. 6

Unit 2.8

1. apple 2. Colorado, Missouri, Mississippi
3. $9.66 4. $7.25 5. a) 34,56 b) 11,16
   c) 303,404,505,808 d) 543,432,321 6. 9,171; 9,173; 9,177; 9,179