

UNDERSTANDING PLACE VALUE

4th Grade

UNDERSTANDING PLACE VALUE

Multiplication word problems

Directions: Use your knowledge of place value to solve the multiplication word problems.

- 1 There are 20 students in Mr. Simmons' class. Each student has 40 base ten blocks. How many base ten blocks are there in total?

UNDERSTANDING PLACE VALUE

Using place value to multiply

Directions: Use your knowledge of place value to solve the multiplication problems.

EX 6×50

I think 50 is equal to 5×10 , so 6×50 is the same as $6 \times 5 \times 10$.

$6 \times 5 = 30$

$30 \times 10 = 300$

UNDERSTANDING PLACE VALUE

Sweet treat comparisons

Directions: Compare the circled digits on the two sweets. Fill in the blank comparing the circled digits.

- 1 The circled digit on the candy is 100 times less than the circled digit on the donut.
- 2 The circled digit on the cinnamon roll is 10 times less than the circled digit on the cupcake.
- 3 The circled digit on the cake is 10 times greater than the circled digit on the chocolate.

UNDERSTANDING PLACE VALUE

Place value puzzles

Directions: Cut out the puzzle pieces. Use three pieces to assemble each puzzle. Each puzzle will have two pieces with numbers and one piece that compares the value of the circled digit on the left number with the circled digit on the right number.

EX 68 $10 \times$ greater 356

UNDERSTANDING PLACE VALUE

Place value maze

Directions: Answer the first question about place value. Color the path with the correct answer and follow it to the next question. Continue following and coloring the path of the correct answer until you reach the finish. Then, go back and answer the questions you didn't do (but don't look for their answers in the paths).



UNDERSTANDING PLACE VALUE

Place value



In a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.

- 5 ones = 5
- 5 tens = 50
- 5 hundreds = 500
- 5 thousands = 5,000
- 5 ten thousands = 50,000
- 5 hundred thousands = 500,000
- 5 millions = 5,000,000

Printable & Google Slides

UNDERSTANDING PLACE VALUE

Use place value to solve the multiplication word problems.

In Mr. Simmons' class. Each student has 50 base ten blocks. How many base ten blocks are there in all?

UNDERSTANDING PLACE VALUE

Use place value to solve the multiplication problems.

I think
50 is equal to 5×10 , so 6×50 is the same as $6 \times 5 \times 10$.

$(6 \times 5) \times 10 = 240$

UNDERSTANDING PLACE VALUE

Use place value to solve the multiplication problems.

Two sweets. Fill in the blank comparing the value of the circled digit to the value of the other digit.

1,607
The value of the circled 6 is 100 times less than the value of the 1.

953
The value of the circled 9 is 10 times less than the value of the 5.

2,582
The value of the circled 2 is 10 times greater than the value of the 5.

4,951
The value of the circled 4 is 1,000 times less than the value of the 9.

634
The value of the circled 6 is 100 times greater than the value of the 3.

NAME: _____

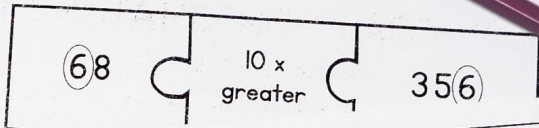
DATE: _____

UNDERSTANDING PLACE VALUE

Place value puzzles

Directions: Cut out the puzzle pieces. Use three pieces to assemble each puzzle. Each puzzle will have two pieces with numbers and one piece that compares the value of the circled digit on the left number with the circled digit on the right number. Label each piece.

EX



NAME: _____

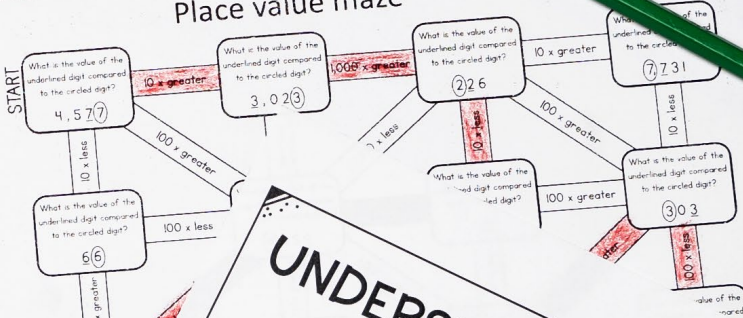
DATE: _____

UNDERSTANDING PLACE VALUE

Place value maze

Directions:

Answer the first question about place value. Color the path with the correct answer and follow it to the next question. Continue following and coloring the path of the correct answer until you reach the finish. Then, go back and answer the questions you didn't do (but don't look for their answers in the paths).



UNDERSTANDING PLACE VALUE

Place value



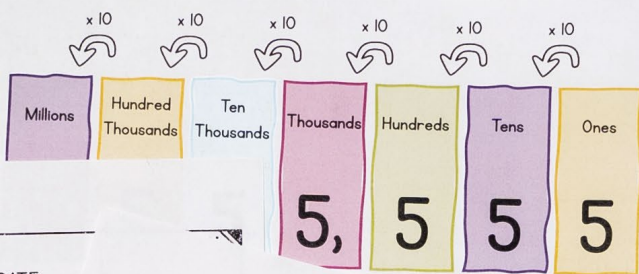
In a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.

- 5 ones = 5
- 5 tens = 50
- 5 hundreds = 500
- 5 thousands = 5,000
- 5 ten thousands = 50,000
- 5 hundred thousands = 500,000
- 5 millions = 5,000,000

100 x greater

UNDERSTANDING

Place value



UNDERSTANDING PLACE

ication word problem
of place value to solve the multipl

is in Mr. Simmons' class. Each s
s. How many base ten blocks

base ten blocks

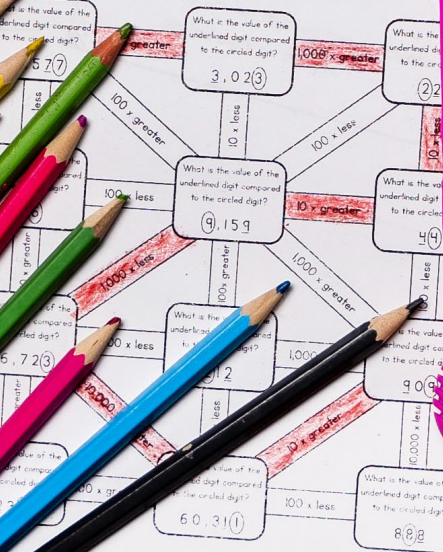
taking a road trip. The
miles per hour. How m

480 miles

contains 300 ser

UNDERSTANDING PLACE

Place value maze

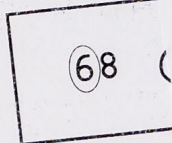


NAME: _____

UNDERSTANDING PLACE VALUE

Directions: Cut out the puzzle
puzzle will have two pieces with
circled digit on the left number
place value.

EX



UNDERSTANDING

Using place value

Directions: Use your knowledge of place value to s

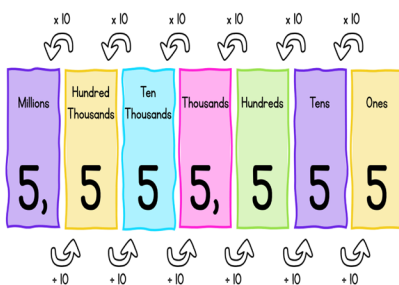
EX

I see
6 x 50

I think
50 is equal to 5 x 10, so
is the same as (6 x 50)

UNDERSTANDING place value

In a multi-digit whole number, a digit in one place represents ten
times what it represents in the place to its right.



- 5 ones = 5
- 5 tens = 50
- 5 hundreds = 500
- 5 thousands = 5,000
- 5 ten thousands = 50,000
- 5 hundred thousands = 500,000
- 5 millions = 5,000,000

STANDING PLACE

Multiplication word problems

20 students in Mr. Simmons' class. Each student
se ten blocks. How many base ten blocks are
total?

800 base ten blocks

aira family is taking a road trip. They drove for 8
nd drove 60 miles per hour. How many miles did the
s travel?

480 miles

ket of seeds contains 300 seeds. How many seeds are
ockets?

15,000 seeds

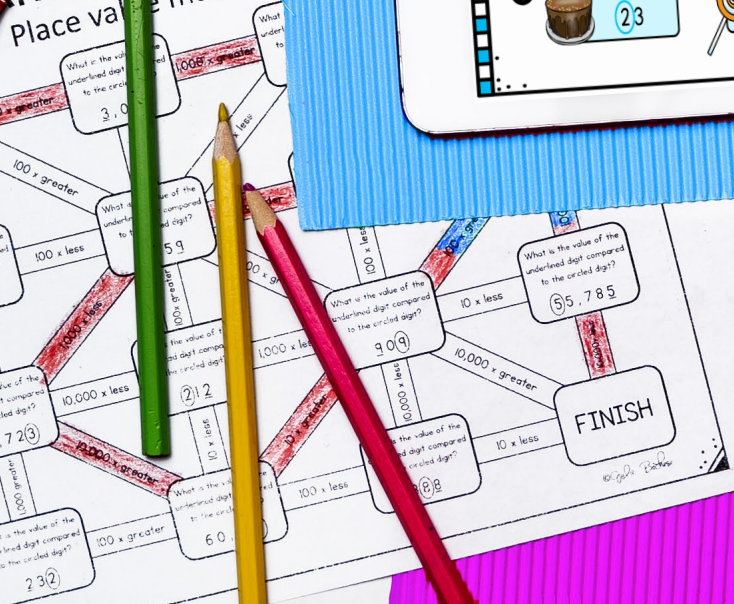
tens

hundreds = 500

5 thousands = 5,000

STANDING PLACE

Place value maze



DATE: _____

NAME: _____

DATE: _____

UNDERSTANDING PLACE VALUE

Sweet treat comparisons

Directions: Compare the circled digits on the two sweets. Fill in the blank comparing the circled digits.

1  45(6)

 1,6(0)7

The circled digit on the candy is 100 times less than the circled digit on the donut.

2  (9)7

 9(5)3

The circled digit on the cinnamon roll is 10 times less than the circled digit on the cupcake.

3  (2)3

 2,58(2)

UNDERSTANDING PLACE VALUE

sweet treat comparisons

Directions: Compare the circled digits on the two sweets. Fill in the blank comparing the circled digits.

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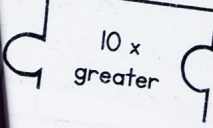
The circled digit on the cake is 10 times less than the circled digit on the lollipop.

NAME: _____

UNDERSTANDING PLACE VALUE

Place value puzzle

Directions: Cut out the puzzle pieces. Use three pieces to make a number. Use your knowledge of place value.

EX  

UNDERSTANDING PLACE VALUE

Using place value

Directions: Use your knowledge of place value to solve the problems.

6 x 10 = 60

8 x 20 = 160

x 9 = 90

= 1060

3,500

9 5 x 6,000 = 30,000

8

10

NAME: _____ DATE: _____

UNDERSTANDING PLACE VALUE

Sweet treat comparisons

Directions: Compare the circled digits on the two sweets. Fill in the blank comparing the circled digits.

1 _____

DATE: _____

ING PLACE VALUE

Place value

Hundreds Tens Ones

DATE: _____

ING PLACE VALUE

on word problems

value to solve the multiplication word problems.

Simmons' class. Each student

many base ten blocks

in blocks

NAME: _____

UNDERSTANDING

Directions: Use

EX

I see

6 x 5 =

8 x 20 = 160

70 x 9 = 630

6 x 60 = 360

500 x 7 = 3,500

6 x 6 = 36

30 x 5 = 150

2 x 400 = 800

NAME: _____ DATE: _____

UNDERSTANDING PLACE VALUE

Place value maze

START

What is the value of the underlined digit compared to the circled digit?

4, 5 7 (7)

10 x less

100 x greater

What is the value of the underlined digit compared to the circled digit?

3, 0 2 (3)

10 x less

1,000 x greater

What is the value of the underlined digit compared to the circled digit?

(2) 2 6

10 x greater

100 x greater

What is the value of the underlined digit compared to the circled digit?

(7) 7 3 1

10 x less

What is the value of the underlined digit compared to the circled digit?

5 (6)

10 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

(9), 1 5 9

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

4 (4)

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

(3) 0 3

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

3 6, 7 2 (3)

10,000 x less

10,000 x greater

What is the value of the underlined digit compared to the circled digit?

(2) 1 2

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

9 0 (9)

1,000 x greater

1,000 x less

What is the value of the underlined digit compared to the circled digit?

(5) 5, 7 8 5

10 x less

10,000 x greater

What is the value of the underlined digit compared to the circled digit?

2 3 (2)

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

6 0, 3 1 (1)

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

8 (8) 8

10,000 x greater

10,000 x less

FINISH

NAME: _____ DATE: _____

UNDERSTANDING PLACE VALUE

place value maze

Directions: Answer the first question about place value. Color the path with the correct answer by clicking on the path and using the paint bucket icon. Continue following and coloring the path of the correct answer until you reach the finish. Then, go back and answer the questions you didn't do (but don't look for their answers in the paths).

START

What is the value of the underlined digit compared to the circled digit?

4, 5 7 (7)

10 x less

100 x greater

What is the value of the underlined digit compared to the circled digit?

3, 0 2 (3)

10 x less

1,000 x greater

What is the value of the underlined digit compared to the circled digit?

(2) 2 6

10 x greater

100 x greater

What is the value of the underlined digit compared to the circled digit?

(7) 7 3 1

10 x less

What is the value of the underlined digit compared to the circled digit?

5 (6)

10 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

(9), 1 5 9

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

4 (4)

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

(3) 0 3

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

3 6, 7 2 (3)

10,000 x less

10,000 x greater

What is the value of the underlined digit compared to the circled digit?

(2) 1 2

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

9 0 (9)

1,000 x greater

1,000 x less

What is the value of the underlined digit compared to the circled digit?

(5) 5, 7 8 5

10 x less

10,000 x greater

What is the value of the underlined digit compared to the circled digit?

2 3 (2)

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

6 0, 3 1 (1)

100 x greater

100 x less

What is the value of the underlined digit compared to the circled digit?

8 (8) 8

10,000 x greater

10,000 x less

FINISH

8 x 20 = 160

70 x 9 = 630

6 x 60 = 360

500 x 7 = 3,500

6 x 6 = 36

30 x 5 = 150

2 x 400 = 800

(6 x 5) x 10 = 30 x 10 = 300

UNDERSTANDING PLACE VALUE

Directions: Use your knowledge of

- There are 20 students in a class. If each student has 40 base ten blocks, how many blocks are there in total?

800

- The Pereira family left home at 8:00 and drove 60 miles. How far did they travel?

- A packet of 50 packets.

NAME: _____ DATE: _____

UNDERSTANDING PLACE VALUE

Using place value to multiply

Directions: Use your knowledge of

EX $6 \times 50 = 300$

1 $8 \times 20 = 160$

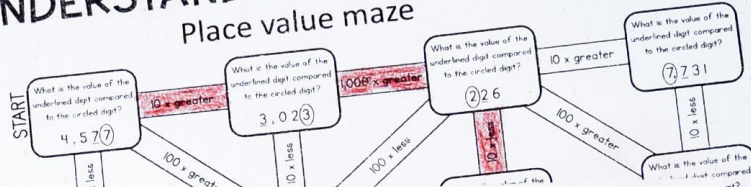
3 $70 \times 9 = 630$

NAME: _____

UNDERSTANDING PLACE VALUE

Place value maze

Directions: Answer the first question about place value. Color the path with the correct answer and follow it to the next question.



NAME: _____ DATE: _____

UNDERSTANDING PLACE VALUE

Place value puzzles

Directions: Cut out the puzzle pieces. Use three pieces to assemble each puzzle. Each puzzle will have two pieces with numbers and one piece that compares the value of the circled digit on the left number with the right number. Label each place value.

EX

--	--	--	--

NAME: _____

UNDERSTANDING PLACE VALUE

Sweet treat comparison

Directions: Compare the circled digits on the two sweets.

- The circled digit on the candy is 100 times the value of the circled digit on the donut.

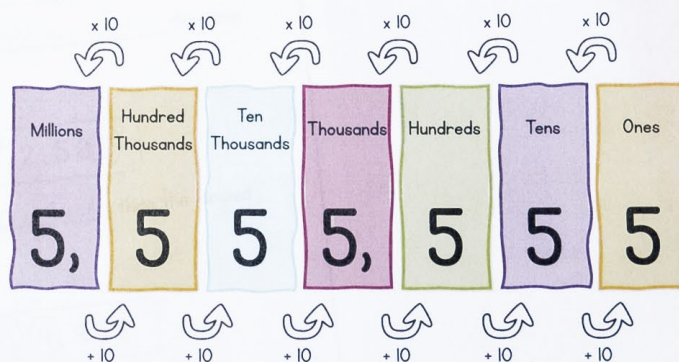
- The circled digit on the cinnamon roll is 10 times the value of the circled digit on the cupcake.

- The circled digit on the cake is 10 times the value of the circled digit on the lollipop.

- The circled digit on the chocolate bar is 10 times the value of the circled digit on the pie.

UNDERSTANDING PLACE VALUE

Place value



In a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.

- 5 ones = 5
- 5 tens = 50
- 5 hundreds = 500
- 5 thousands = 5,000
- 5 ten thousands = 50,000
- 5 hundred thousands = 500,000
- 5 millions = 5,000,000

UNDERSTANDING PLACE VALUE

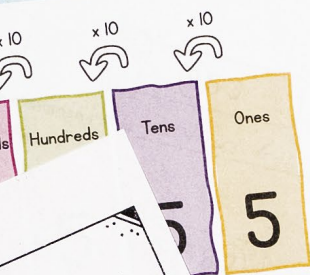
Sweet treat comparing the circled digits on

DATE:

S

blank comparing the

Place value



PLACE VALUE

application word problems.

each student

blocks are

trip. They drove for 8
ar. How many miles did the

miles

ains 300 seeds. How many seeds are in

15,000 seeds

32,854

10 x
less

100 x
less

793

UNDERSTANDING PLACE VALUE

place value puzzles

Directions: Drag the puzzle pieces. Use three pieces to assemble each puzzle. Each puzzle will have two pieces with numbers and one piece that compares the value of the circled digit on the left number with the circled digit on the right number.



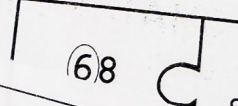
NAME:

UNDERSTAND

Place

Directions: Cut out the puzzle pieces. Each puzzle will have two pieces with numbers and one piece that compares the value of the circled digit on the left number with the value of the circled digit on the right number.

EX



UNDERSTANDING PLACE VALUE

DATE:

Using place value to multiply

EX

I see
 $6 \times 50 = 300$

I think
50 is equal to 5×10 , so 6×50 is the same as $(6 \times 5) \times 10$

I solve
 $(6 \times 5) \times 10 = 30 \times 10 = 300$

2 $40 \times 6 = 240$

4 $30 \times 5 = 150$

6 $2 \times 400 = 800$

8 $900 \times 3 = 2700$

10 $8,000 \times 8 = 64,000$

100 x
greater

62,746

6 x 60 = 360

7 $500 \times 7 = 3,500$

9 $5 \times 6,000 = 30,000$

1,376

32,854

1,376

793

place value and

DISCARD

DISCARD

YELLOW

Drag me to tally points

BLU

DATE:

Ten
Thousands

Directions: Use your knowledge of the passage to answer the question.

1 There are 20 students
has 40 base ten blocks
there in total?

2 The Pereira family is to hours and drove 60 mil. Pereiras travel?

3 A packet of seeds contains 50 packets?

DATE: _____

Using place value to multiply

Directions: Use your knowledge of place value to solve the multi-

EX I see 6×50

I think

EX
I see
6 x 50

1 $8 \times 20 = \underline{160}$

3 $70 \times 9 = 630$

5 $6 \times 60 = \underline{360}$

7 $500 \times 7 = 3,500$

9 $5 \times 6,000 = \underline{30,000}$

2 $40 \times 6 = \underline{240}$

4 $30 \times 5 = 150$

6 $2 \times 400 = 800$

8 $900 \times 3 = 2,700$

10 $8,000 \times 8 = 64,000$

A red binder clip is shown holding a piece of paper. The paper features a path diagram with a start point and a finish point, and a list of questions. The text on the paper includes: "to the", "estion.", "ing and", "the path", "ne correct", "ver until you", "ch the finish.", "go back", "id answer the", "uestions you", "didn't do (but", "don't look for", "their answers in", "the paths).".

The image shows a 'Place Value Game' board. The board is a circular path of boxes. Each box contains a number with one digit underlined. A question is posed: 'What is the value of the underlined digit compared to the circled digit?'. The path is marked with arrows and labels for multiplication and division by powers of 10. A green pencil and a red pencil are placed on the board. A yellow lightning bolt icon is also visible.

Visible boxes and their contents:

- Box 1: 4, 5 7 (7 circled). Question: What is the value of the underlined digit compared to the circled digit? Arrow: $10 \times$ less.
- Box 2: 100 x greater. Arrow: $100 \times$ greater.
- Box 3: 3, 1 5 (5 circled). Question: What is the value of the underlined digit compared to the circled digit? Arrow: $10 \times$ less.
- Box 4: 100 x greater. Arrow: $1,000 \times$ greater.
- Box 5: 900, 1 0 (0 circled). Question: What is the value of the underlined digit compared to the circled digit? Arrow: $10,000 \times$ less.
- Box 6: 8 6 (6 circled). Question: What is the value of the underlined digit compared to the circled digit? Arrow: $10 \times$ greater.
- Box 7: 60, 31 1 (1 circled). Question: What is the value of the underlined digit compared to the circled digit? Arrow: $100 \times$ less.
- Box 8: 3 6 (6 circled). Question: What is the value of the underlined digit compared to the circled digit? Arrow: $100 \times$ greater.
- Box 9: 3 6, 72 (3 circled). Question: What is the value of the underlined digit compared to the circled digit? Arrow: $100 \times$ greater.
- Box 10: 2 1, 2 (1 circled). Question: What is the value of the underlined digit compared to the circled digit? Arrow: $100 \times$ less.
- Box 11: 2 1, 59 (1 circled). Question: What is the value of the underlined digit compared to the circled digit? Arrow: $10 \times$ greater.
- Box 12: 100 x greater. Arrow: $100 \times$ less.
- Box 13: 100 x greater. Arrow: $100 \times$ less.
- Box 14: 100 x greater. Arrow: $100 \times$ less.
- Box 15: 100 x greater. Arrow: $100 \times$ less.
- Box 16: 100 x greater. Arrow: $100 \times$ less.
- Box 17: 100 x greater. Arrow: $100 \times$ less.
- Box 18: 100 x greater. Arrow: $100 \times$ less.
- Box 19: 100 x greater. Arrow: $100 \times$ less.
- Box 20: 100 x greater. Arrow: $100 \times$ less.
- Box 21: 100 x greater. Arrow: $100 \times$ less.
- Box 22: 100 x greater. Arrow: $100 \times$ less.
- Box 23: 100 x greater. Arrow: $100 \times$ less.
- Box 24: 100 x greater. Arrow: $100 \times$ less.
- Box 25: 100 x greater. Arrow: $100 \times$ less.
- Box 26: 100 x greater. Arrow: $100 \times$ less.
- Box 27: 100 x greater. Arrow: $100 \times$ less.
- Box 28: 100 x greater. Arrow: $100 \times$ less.
- Box 29: 100 x greater. Arrow: $100 \times$ less.
- Box 30: 100 x greater. Arrow: $100 \times$ less.
- Box 31: 100 x greater. Arrow: $100 \times$ less.
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- Box 33: 100 x greater. Arrow: $100 \times$ less.
- Box 34: 100 x greater. Arrow: $100 \times$ less.
- Box 35: 100 x greater. Arrow: $100 \times$ less.
- Box 36: 100 x greater. Arrow: $100 \times$ less.
- Box 37: 100 x greater. Arrow: $100 \times$ less.
- Box 38: 100 x greater. Arrow: $100 \times$ less.
- Box 39: 100 x greater. Arrow: $100 \times$ less.
- Box 40: 100 x greater. Arrow: $100 \times$ less.
- Box 41: 100 x greater. Arrow: $100 \times$ less.
- Box 42: 100 x greater. Arrow: $100 \times$ less.
- Box 43: 100 x greater. Arrow: $100 \times$ less.
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- Box 45: 100 x greater. Arrow: $100 \times$ less.
- Box 46: 100 x greater. Arrow: $100 \times$ less.
- Box 47: 100 x greater. Arrow: $100 \times$ less.
- Box 48: 100 x greater. Arrow: $100 \times$ less.
- Box 49: 100 x greater. Arrow: $100 \times$ less.
- Box 50: 100 x greater. Arrow: $100 \times$ less.
- Box 51: 100 x greater. Arrow: $100 \times$ less.
- Box 52: 100 x greater. Arrow: $100 \times$ less.
- Box 53: 100 x greater. Arrow: $100 \times$ less.
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- Box 58: 100 x greater. Arrow: $100 \times$ less.
- Box 59: 100 x greater. Arrow: $100 \times$ less.
- Box 60: 100 x greater. Arrow: $100 \times$ less.
- Box 61: 100 x greater. Arrow: $100 \times$ less.
- Box 62: 100 x greater. Arrow: $100 \times$ less.
- Box 63: 100 x greater. Arrow: $100 \times$ less.
- Box 64: 100 x greater. Arrow: $100 \times$ less.
- Box 65: 100 x greater. Arrow: $100 \times$ less.
- Box 66: 100 x greater. Arrow: $100 \times$ less.
- Box 67: 100 x greater. Arrow: $100 \times$ less.
- Box 68: 100 x greater. Arrow: $100 \times$ less.
- Box 69: 100 x greater. Arrow: $100 \times$ less.
- Box 70: 100 x greater. Arrow: $100 \times$ less.
- Box 71: 100 x greater. Arrow: $100 \times$ less.
- Box 72: 100 x greater. Arrow: $100 \times$ less.
- Box 73: 100 x greater. Arrow: $100 \times$ less.
- Box 74: 100 x greater. Arrow: $100 \times$ less.
- Box 75: 100 x greater. Arrow: $100 \times$ less.
- Box 76: 100 x greater. Arrow: $100 \times$ less.
- Box 77: 100 x greater. Arrow: $100 \times$ less.
- Box 78: 100 x greater. Arrow: $100 \times$ less.
- Box 79: 100 x greater. Arrow: $100 \times$ less.
- Box 80: 100 x greater. Arrow: $100 \times$ less.
- Box 81: 100 x greater. Arrow: $100 \times$ less.
- Box 82: 100 x greater. Arrow: $100 \times$ less.
- Box 83: 100 x greater. Arrow: $100 \times$ less.
- Box 84: 100 x greater. Arrow: $100 \times$ less.
- Box 85: 100 x greater. Arrow: $100 \times$ less.
- Box 86: 100 x greater. Arrow: $100 \times$ less.
- Box 87: 100 x greater. Arrow: $100 \times$ less.
- Box 88: 100 x greater. Arrow: $100 \times$ less.
- Box 89: 100 x greater. Arrow: $100 \times$ less.
- Box 90: 100 x greater. Arrow: $100 \times$ less.
- Box 91: 100 x greater. Arrow: $100 \times$ less.
- Box 92: 100 x greater. Arrow: $100 \times$ less.
- Box 93: 100 x greater. Arrow: $100 \times$ less.
- Box 94: 100 x greater. Arrow: $100 \times$ less.
- Box 95: 100 x greater. Arrow: $100 \times$ less.
- Box 96: 100 x greater. Arrow: $100 \times$ less.
- Box 97: 100 x greater. Arrow: $100 \times$ less.
- Box 98: 100 x greater. Arrow: $100 \times$ less.
- Box 99: 100 x greater. Arrow: $100 \times$ less.
- Box 100: 100 x greater. Arrow: $100 \times$ less.

100 x
less

10 x
less

UNDERSTANDING PLACE VALUE

4th grade

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3. Place Value Games and Activities (5 pages)
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5. Using Place Value in Mental Division (4 pages)
6. Place Value Word Problems (4 pages)
7. Test Review (3 pages)
8. Test (3 pages)



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NAME: _____ DATE: _____

UNDERSTANDING PLACE VALUE

complete the number

Directions: Follow the instructions for each question to complete the number.

- 1 Complete the number so that the missing digit is 10 times more than the digit in the ones place. _____ 3
- 2 Complete the number so that the missing digit is 10 times less than the digit in the hundreds place. 7 _____ 2
- 3 Complete the number so that the missing digit is 10 times more than the digit in the tens place. _____ 45
- 4 Complete the number so that the missing digit is 10 times more than the digit in the hundreds place. _____ , 105
- 5 Complete the number so that the missing digit is 10 times less than the digit in the thousands place. 8 , _____ 26
- 6 Complete the number so that the missing digit is 10 times less than the digit in the tens place. 6, 25 _____
- 7 Complete the number so that the missing digit is 10 times more than the digit in the thousands place. _____ 4, 833
- 8 Complete the number so that the missing digit is 10 times less than the digit in the ten thousands place. 9 _____ , 704

NAME: _____

DATE: _____

UNDERSTANDING PLACE VALUE

color the number

Directions: Follow the instructions to color the digits of each number.

- 1** Color the ones digit yellow.
Color the digit that is 10 times the ones green.
Color the digit that is 100 times the ones purple.
Color the digit that is 1,000 times the ones blue.

3,333

- 2** Color the tens digit blue.
Color the digit that is 10 times less than the tens orange.
Color the digit that is 10 times the tens green.
Color the digit that is 100 times the tens red.

5,555

- 3** Color the hundreds digit purple.
Color the digit that is 100 times less than the hundreds blue.
Color the digit that is 10 times less than the hundreds yellow.
Color the digit that is 10 times the hundreds green.

9,999

- 4** Color the thousands digit red.
Color the digit that is 1,000 times less than the thousands orange.
Color the digit that is 100 times less than the thousands blue.
Color the digit that is 10 times less than the thousands yellow.

2,222

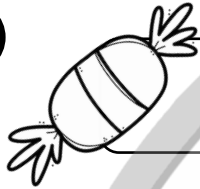
NAME: _____ DATE: _____

UNDERSTANDING PLACE VALUE

sweet treat comparisons

Directions: Compare the circled digits on the two sweets. Fill in the blank comparing the circled digits.

1



45(6)



1,(6)07

The circled digit on the candy is _____ than the circled digit on the donut.

2



(9)7



(9)53

The circled digit on the cinnamon roll is _____ than the circled digit on the cupcake.

3



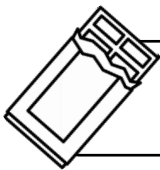
(2)3



2,58(2)

The circled digit on the cake is _____ than the circled digit on the lollipop.

4



63(4)



(4),958

The circled digit on the chocolate bar is _____ than the circled digit on the pie.

NAME: _____

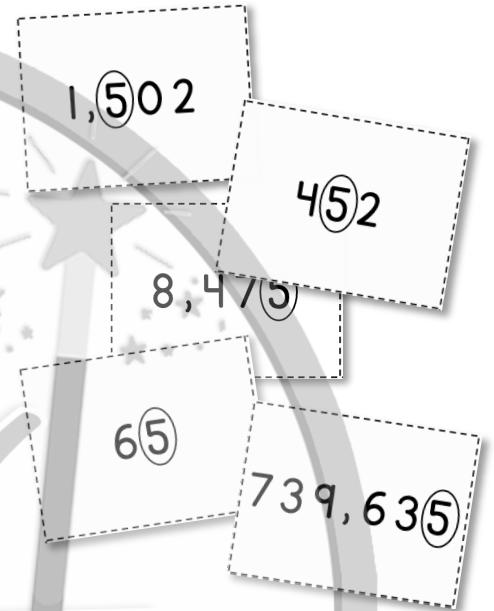
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UNDERSTANDING PLACE VALUE

place value duel

Directions:

1. Work in partners or small groups.
2. Cut out the cards on the following pages.
3. Shuffle the cards and deal an equal amount to each player. Players leave their cards face down without looking at them.
4. On the count of three, each player flips over the top card from their pile and places it face up in the middle.
5. Compare the value of the circled digits in each of the numbers. Each player must say how the value of their circled digit compares to the values of the other players' circled digits.
Ex: "My circled digit is 100 times greater than Player 1, but it is 10 times less than Player 2."
6. The player with the circled digit with the greatest value gets to keep all cards played during the round. If two players tie for the greatest value, they must play another card for a tiebreaker.
7. The person with the most cards at the end of the game wins.



UNDERSTANDING PLACE VALUE

place value puzzles

©Julie Barnes



37,38(4)

10 x
greater

7(8)9

(1)0,385

10,000 x
less

8,02(9)

6,(8)07

1,000 x
less

(1)2

(7)4,812

100,000 x
greater

1,(4)95,083

4(2)

100,000 x
less

(5)4,672

96(6)

1,000 x
greater

6,(7)52

NAME: _____

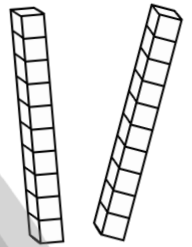
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UNDERSTANDING PLACE VALUE

multiplication word problems

Directions: Use your knowledge of place value to solve the multiplication word problems.

- 1** There are 20 students in Mr. Simmons' class. Each student has 40 base ten blocks. How many base ten blocks are there in total?



- 2** The Pereira family is taking a road trip. They drove for 8 hours and drove 60 miles per hour. How many miles did the Pereiras travel?



- 3** A packet of seeds contains 300 seeds. How many seeds are in 50 packets?



NAME: _____

DATE: _____

UNDERSTANDING PLACE VALUE

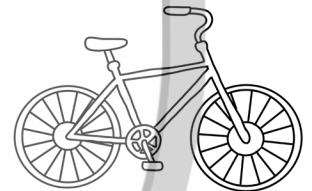
division word problems

Directions: Use your knowledge of place value to solve the division word problems.

- 1** Miranda collects toy trains. In total, she has spent \$260 on trains. If Miranda has 10 trains, and each train cost the same amount, how much did each train cost?



- 2** Harry is training for a bike race. In the past two weeks, Harry rode his bike the same distance every day for training. If he rode 140 miles in total, how far did Harry ride each day?



- 3** There are 290 students in the fourth grade at Trexler Elementary. There are 10 classes, and each class has the same number of students. How many students are in each class?



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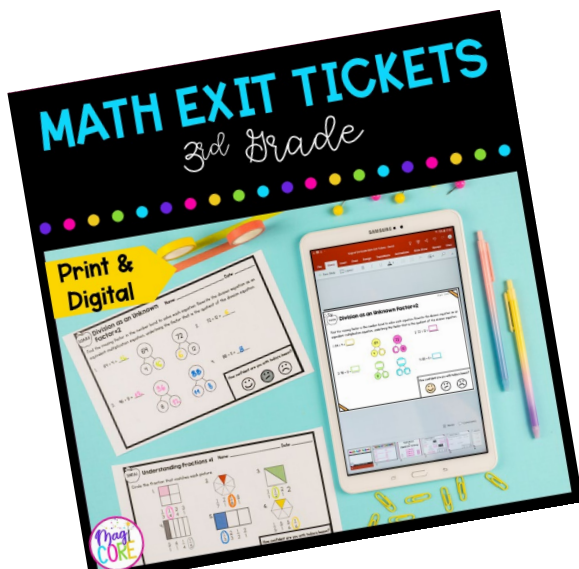


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