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Place Value to 10,000 - Year 3

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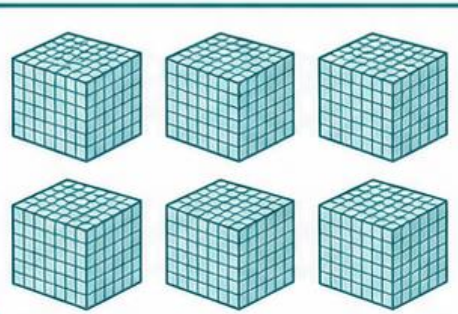
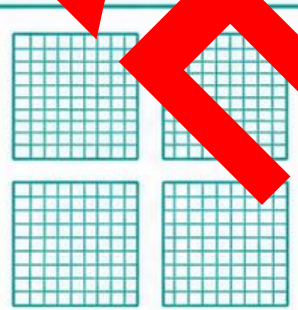
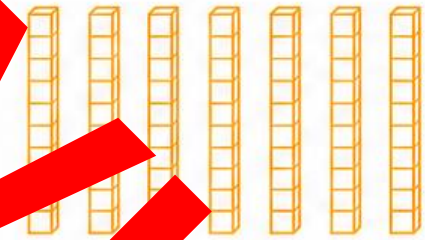
FOUR-DIGIT PLACE VALUE DESK MAT

THOUSANDS	HUNDREDS	TENS	ONES
6	4	7	2
			

Standard form: 6,472

Expanded form: 6,000 + 400 + 70 + 2

Word form: six thousand four hundred seventy-two

Read from the greatest place to the smallest place.

FOUR-DIGIT PLACE VALUE MATCH-UP

PAGE 1 • NUMERALS AND EXPANDED FORM

Cut out the cards. Match each numeral to its expanded form.

2,406	2,000 + 400 + 6
7,350	7,000 + 300 + 50
9,018	9,000 + 10 + 8
4,672	4,000 + 600 + 70 + 2

FOUR-DIGIT PLACE VALUE MATCH-UP

PAGE 2 • NUMERALS AND NUMBER NAMES

Cut out the cards. Match each numeral to its number name.

5,204	five thousand two hundred and four
8,090	eight thousand and ninety
3,761	three thousand seven hundred and sixty-one
6,508	six thousand five hundred and eight

RENAMING NUMBERS BINGO

PLAYER BOARDS

Listen to each number clue. Cover the matching numeral. Thr in a r wins!

BOARD A

1,240	3,506	7,890
4,032	FREE	6,715
9,008	5,460	2,999

BOARD B

5,460	8,105	3,506
6,715	FREE	1,240
4,032	7,890	9,008

RENAMING NUMBERS BINGO

CALLER CARDS

Cut apart and shuffle. Read one clue aloud at a time.

12 hundreds + 4 tens	35 hundred + 6 o[illegible]s	[illegible]8 hundreds + 9 tens
40 hundreds + 3 te[illegible] + 2 o[illegible]es	67 hu[illegible]dreds + 1 ten + 5 ones	90 hundreds + 8 ones
[illegible]4 hundreds + 6 tens	29 hundreds + 9 tens + 9 ones	81 hundreds + 5 ones

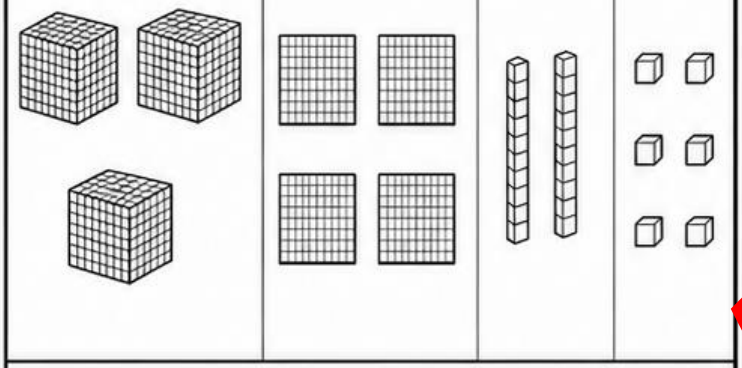
Name: _____

READ THE BLOCKS

PAGE 1 • BUILD THE NUMERAL

Count the base-ten blocks. Write the numeral and expanded form.

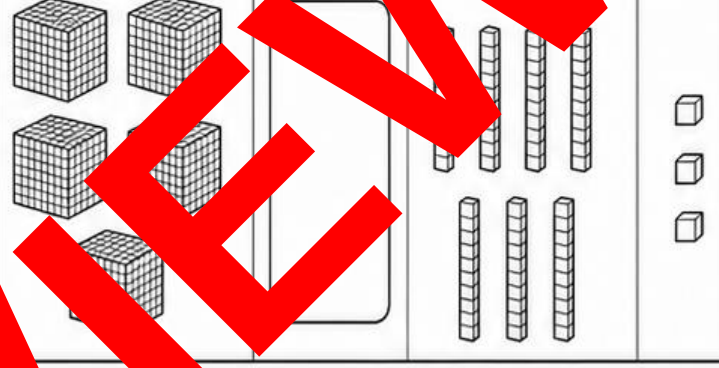
1



Numeral: _____

Expanded form: _____

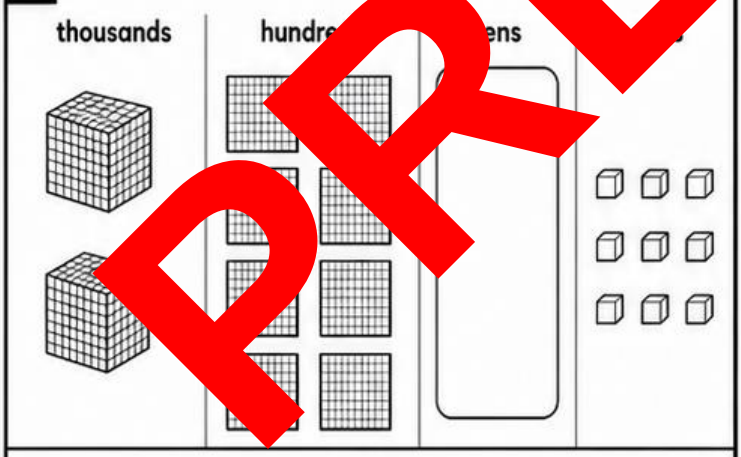
2



Numeral: _____

Expanded form: _____

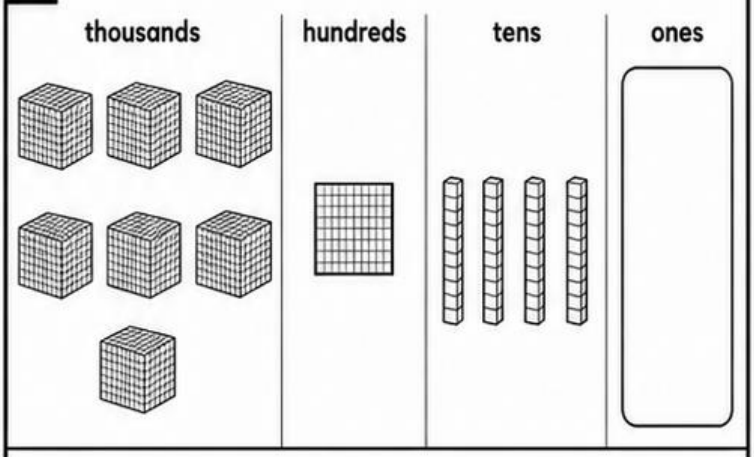
3



Numeral: _____

Expanded form: _____

4



Numeral: _____

Expanded form: _____

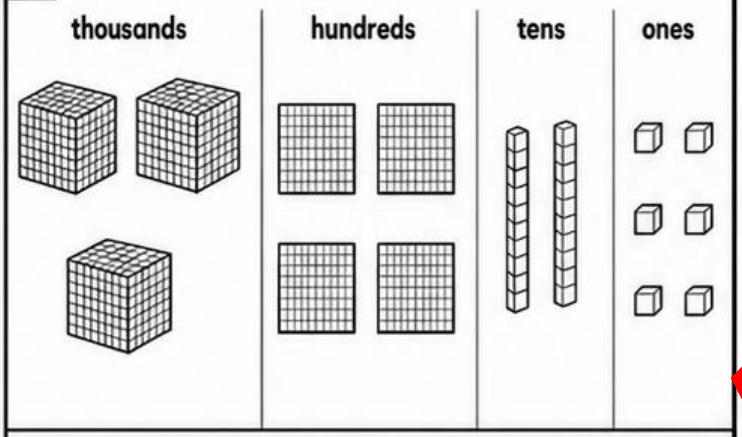
Name: ANSWERS

READ THE BLOCKS

PAGE 1 • BUILD THE NUMERAL

Count the base-ten blocks. Write the numeral and expanded form.

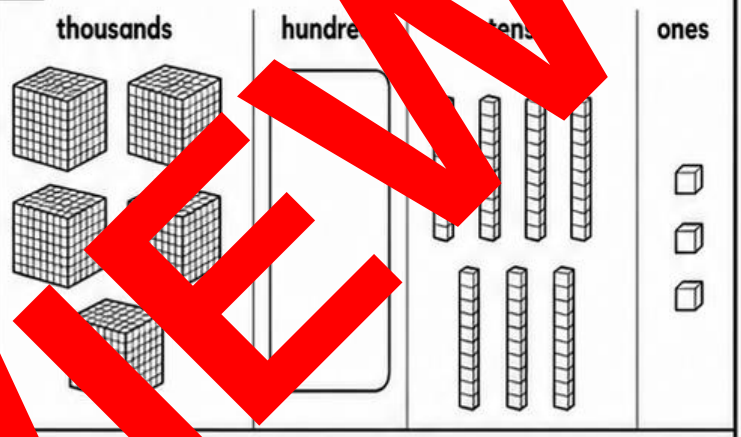
1



Numeral: 3,426

Expanded form: 3,000 + 400 + [illegible] + 6

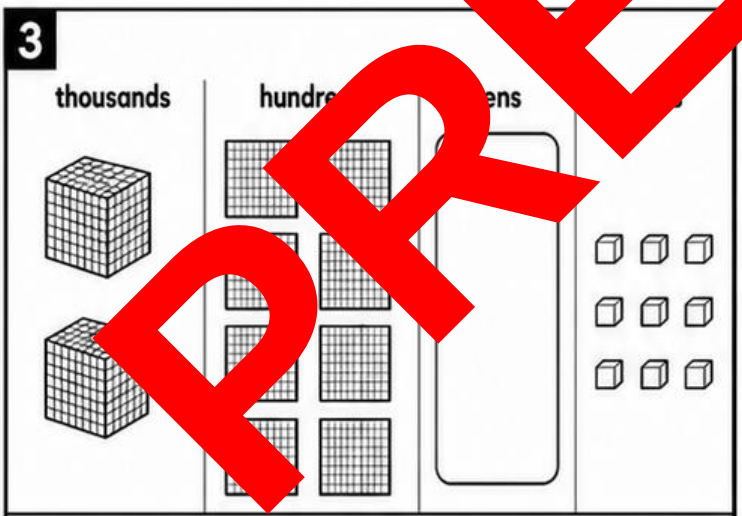
2



Numeral: 5,073

Expanded form: 5,000 + 70 + 3

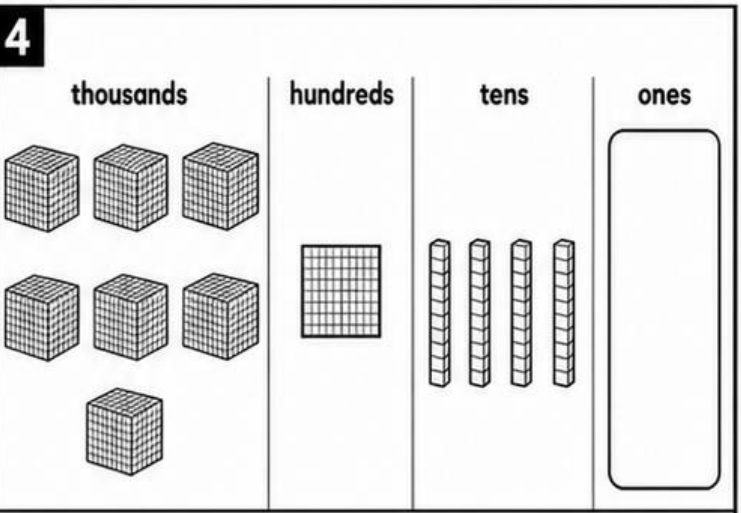
3



Numeral: 2,809

Expanded form: 2,000 + 800 + 9

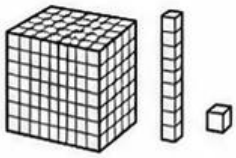
4



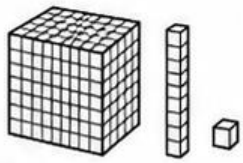
Numeral: 7,140

Expanded form: 7,000 + 100 + 40

Name: _____



READ THE BLOCKS



PAGE 2 • DRAW AND EXPLAIN

Show each number in the chart, sketch its base-ten blocks, then expand it.

1. 4,205

TH	H	T	O

Base-ten sketch:

Expanded form: _____

2. 7,030

TH	H	T	O

Base-ten sketch:

Expanded form: _____

3. 5,684

TH	H	T	O

Base-ten sketch:

Expanded form: _____

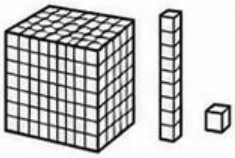
4. 9,109

TH	H	T	O

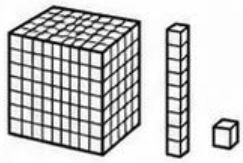
Base-ten sketch:

Expanded form: _____

Name: ANSWERS



READ THE BLOCKS



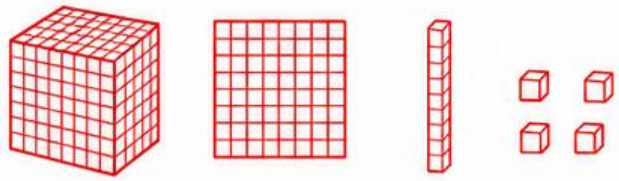
PAGE 2 • DRAW AND EXPLAIN

Show each number in the chart, sketch its base-ten blocks, then expand it.

1. 4,205

TH	H	T	O
4	2	0	5

Base-ten sketch:

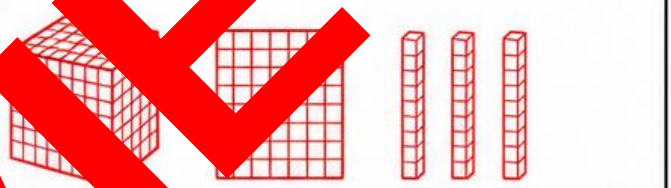


Expanded form: 4,000 + 200 + 5

2. 7,030

TH	H	T	O
7	0	3	0

Base-ten sketch:

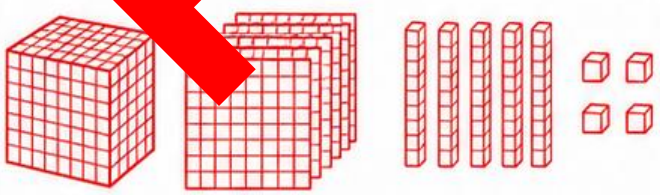


Expanded form: 7,000 + 30

3. 5,684

TH	H	T	O
5	6	8	4

Base-ten sketch:

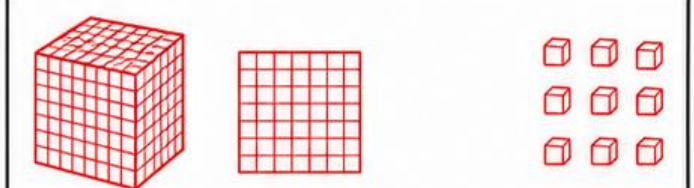


Expanded form: 5,000 + 600 + 80 + 4

4. 9,109

TH	H	T	O
9	1	0	9

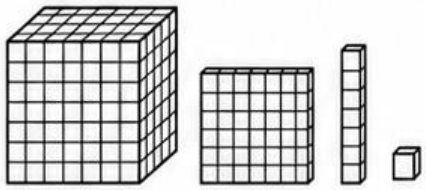
Base-ten sketch:



Expanded form: 9,000 + 100 + 9

Name: _____

PLACE VALUE TABLE PRACTICE



A. Place each numeral in the chart.

1. 6,482

TH	H	T	O

2. 3,057

TH	H	T	O

3. 9,304

TH	H	T	O

4. 7,990

TH	H	T	O

B. Read the chart and write the numeral.

	TH	H	T	O
5.	2	6	1	5
6.	8	0	4	2
7.	5	3	0	9
8.	1	9	7	0

Numeral: _____

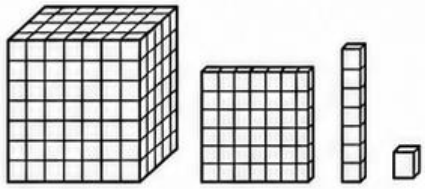
Numeral: _____

Numeral: _____

Numeral: _____

Name: ANSWERS

PLACE VALUE TABLE PRACTICE



A. Place each numeral in the chart.

1. 6,482

TH	H	T	O
6	4	8	2

2. 3,057

TH	H	T	O
3	0	5	7

3. 9,304

TH	H	T	O
9	3	0	4

4. 7,990

TH	H	T	O
7	9	9	0

B. Read the chart and write the numeral.

	TH	H	T	O
5.	2	6	1	5
6.	8	0	4	2
7.	5	3	0	9
8.	1	9	7	0

Numeral: 2,615

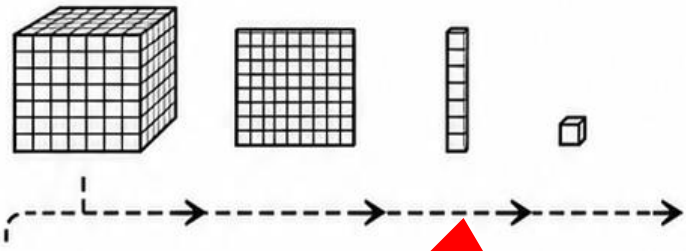
Numeral: 8,042

Numeral: 5,309

Numeral: 1,970

EXPANDED FORM PATHWAYS

Name: _____



A. Expand each numeral.

1. 4,376 _____
2. 8,052 _____
3. 6,490 _____
4. 9,108 _____

B. Write each expanded form as a number.

5. 2,000 + 700 + 3[illegible] + 5 _____
6. 5,000 + 8[illegible] _____
7. 7,000 + [illegible]0 [illegible]4 _____
8. [illegible],000 + 900 + [illegible]20 _____

C. True or false? Correct any false statement.

9. 4,205 = 4,000 + 200 + 5 ○ True ○ False

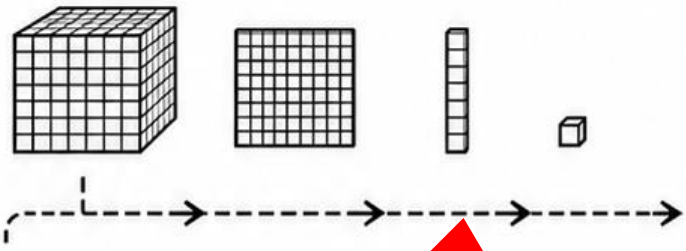
_____

10. 6,070 = 6,000 + 700 ○ True ○ False

_____

EXPANDED FORM PATHWAYS

Name: ANSWERS



A. Expand each numeral.

1. 4,376 4,000 + 300 + 70 + 6
2. 8,052 8,000 + 50 + 2
3. 6,490 6,000 + 400 + 90
4. 9,108 9,000 + 100 +

B. Write each expanded form as a number.

5. 2,000 + 700 + 3 + 5 2,735
6. 5,000 + 80 ,081
7. 7,000 + 4 7,604
8. ,000 + 900 + 20 3,920

C. True or False? Correct any false statement.

9. 4,205 = 4,000 + 200 + 5 ☑ True ○ False

10. 6,070 = 6,000 + 700 ○ True ☑ False

6,070 = 6,000 + 70

NUMBER NAMES AND REPRESENTATIONS

Name: _____

Thousands	Hundreds	Tens	Ones
1	2	3	4

A. Write each numeral in words.

1. 2,406

_____

_____

2. 7,090

_____

_____

3. 5,618

_____

_____

B. Write each number name as a numeral.

4. four thousand three hundred and five _____

5. eight thousand [illegible] _____

6. six thousand seven hundred and nine _____

C. Match each numeral to its expanded form.

7. 9,205	A. 7,000 + 10 + 8
8. 4,670	B. 9,000 + 200 + 5
9. 7,018	C. 4,000 + 600 + 70

NUMBER NAMES AND REPRESENTATIONS

Name: ANSWERS

Thousands	Hundreds	Tens	Ones
1	2	3	4

A. Write each numeral in words.

1. 2,406

two thousand four hundred and six

2. 7,090

seven thousand and ninety

3. 5,618

five thousand six hundred and fifteen

B. Write each number name as a numeral.

4. four thousand three hundred and twelve — 4,312
5. eight thousand and eighty-five — 8,045
6. six thousand seven hundred and nine — 6,709

C. Match each numeral to its expanded form.

7. 9,205 B	A. 7,000 + 10 + 8
8. 4,670 C	B. 9,000 + 200 + 5
9. 7,018 A	C. 4,000 + 600 + 70

COMPARE AND ORDER FOUR-DIGIT NUMBERS

Name: _____

A. Write <, > or =.

1.	4,782	☐	4,728
2.	6,090	☐	6,900
3.	8,305	☐	8,305
4.	3,999	☐	4,001

B. Order from least to greatest.

5. 2,405 2,450 [illegible]045 2,540

_____

6. 7,801 7,[illegible] 7,810 7,018

_____

C. Circle the [illegible]eat[illegible]ber. Box the least number.

7. [illegible]60[illegible] 5,680 5,086 5,860

8. 9,012 9,120 9,201 9,102

D. Explain your thinking.

9. How do you know that 6,412 > 6,142?

_____

_____

_____

COMPARE AND ORDER FOUR-DIGIT NUMBERS

Name: ANSWERS

A. Write <, > or =.

1. 4,782 [>] 4,728
2. 6,090 [<] 6,900
3. 8,305 [=] 8,305
4. 3,999 [<] 4,001

B. Order from least to greatest.

5. 2,045, 2,405, 2,450, 2,540

6. 7,018, 7,180, 7,801, 7,810

C. Circle the greatest number. Box the least number.

7. 5,608 5,680 [5,086] (5,860)
8. [9,012] 9,120 (9,201) 9,102

D. Explain your thinking.

9. How do you know that 6,412 > 6,142?

Both numbers have 6 thousands. Compare the hundreds:

4 hundreds is greater than 1 hundred, so 6,412 is greater.

ZERO HOLDS THE PLACE

Name: _____

Thousands	Hundreds	Tens	Ones
0	0	0	0

A. Fill each missing place with a digit.

1. 4,205 = 4 thousands, 2 hundreds, ☐ tens, 5 ones

2. 7,030 = 7 thousands, ☐ hundreds, 3 tens, ☐ ones

3. 9,008 = 9 thousands, ☐ hundreds, ☐ tens, 8 ones

B. Write the numeral.

4. 5 thousands, 0 hundreds, 6 tens, 2 ones _____

5. 8 thousands, 4 hundreds, 0 tens, 9 ones _____

6. 3 thousands, 1 hundreds, 5 tens, 7 ones _____

C. Circle the correct expanded form.

7. 6,040 ◯ 6,000 + 40 ◯ 6,000 + 400

8. 2,509 ◯ 2,000 + 500 + 9 ◯ 2,000 + 50 + 9

D. Explain your thinking.

9. Why is the zero important in 4,052?

_____

_____

_____

ZERO HOLDS THE PLACE

Name: ANSWERS

Thousands	Hundreds	Tens	Ones
0	0	0	0

A. Fill each missing place with a digit.

1. 4,205 = 4 thousands, 2 hundreds, 0 tens, 5 ones

2. 7,030 = 7 thousands, 0 hundreds, 3 tens, 0 ones

3. 9,008 = 9 thousands, 0 hundreds, 0 tens, 8 ones

B. Write the numeral.

4. 5 thousands, 0 hundreds, 6 tens, 2 ones — 5,062

5. 8 thousands, 4 hundreds, 0 tens, 9 ones — 8,409

6. 3 thousands, 0 hundreds, 0 tens, 7 ones — 3,007

C. Circle the correct expanded form.

7. 6,040 — ✓ 6,000 + 40 — ○ 6,000 + 400

8. 2,509 — ✓ 2,000 + 500 + 9 — ○ 2,000 + 50 + 9

D. Explain your thinking.

9. Why is the zero important in 4,052?

The zero holds the hundreds place. Without it, the digits would shift and the number would change.

PLACE VALUE TO 10,000 ASSESSMENT

PAGE 1 • FOUNDATIONS

Name: _____ **Date:** _____

1. Place 6,407 in the chart.

TH	H	T	

2. What is the value of the 8 in 8,253?

_____

3. Write 5,090 in expanded form.

_____

4. Write 3,000 + 400 + 20 + 7 as a numeral.

_____

5. Write 7,106 in words.

_____

_____

6. Write one thousand and forty-two as a numeral.

_____

7. Write <, > or =.

4,808 ☐ 4,880

8. Order from least to greatest.

2,760 2,706 2,067

_____

PLACE VALUE TO 10,000 ASSESSMENT

PAGE 1 • FOUNDATIONS

Name: ANSWERS Date: _____

1. Place 6,407 in the chart.

TH	H	T	
6	4	0	7

2. What is the value of the 8 in 8,253?

8,000

3. Write 5,090 in expanded form.

5,000 + 90

4. Write 3,000 + 400 + 2[illegible] + 7 as a numeral.

3,427

5. Write 7,106 in words.

seven thousand one hundred and six

6. Write one thousand and forty-two as a numeral.

1,042

7. Write <, > or =.

4,808 < 4,880

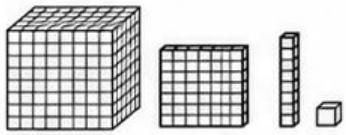
8. Order from least to greatest.

2,760 2,706 2,067

2,067, 2,706, 2,760

PLACE VALUE TO 10,000 ASSESSMENT

PAGE 2 • APPLY AND REASON



Name: _____

9. A number has 4 thousands, 0 hundreds, 6 tens and 3 ones.

   Numeral: _____

   Expanded form: _____

10. Which digit is in the hundreds place in 8,507?

    _____

11. Rename 5,000 as hundreds.

    _____

12. What number is 100 more than 3,905?

    _____

13. Circle every representation equ[illegible] 204.

    - ○ 6,000 + 200 + 4
    - ○ six thousand tw[illegible]undr[illegible]and four
    - ○ 62 hundred[illegible] + 4 o[illegible]
    - ○ 6,000 [illegible]0 +

14. A museum [illegible]d 4,[illegible]isitors. What is the value of the 5?

    _____

15. [illegible]plai[illegible]ny 7,305 > 7,053.

    _____

    _____

    _____

16. Create a four-digit number with 0 in the tens place and a 6 worth 6,000.

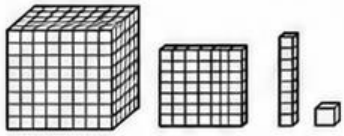
    Numeral: _____

    Expanded form: _____

    In words: _____

PLACE VALUE TO 10,000 ASSESSMENT

PAGE 2 • APPLY AND REASON



Name: ANSWERS

9. A number has 4 thousands, 0 hundreds, 6 tens and 3 ones.

   Numeral: 4,063

   Expanded form: 4,000 + 60 + 3

10. Which digit is in the hundreds place in 8,507?

    5

11. Rename 5,000 as hundreds.

    50 hundreds

12. What number is 100 more than 3,905?

    4,005

13. Circle every representation equa[illegible] 204.

    - ☑ 6,000 + 200 + 4
    - ☑ six thousand tw[illegible]undr[illegible]nd four
    - ☑ 62 hundred[illegible] + 4 o[illegible]
    - ○ 6,000 [illegible]0 + [illegible]

14. A museum [illegible]d 4,3[illegible]visitors. What is the value of the 5?

    [illegible]

15. [illegible]plai[illegible]ny 7,305 > 7,053.

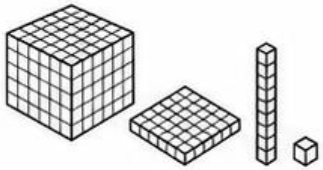
    [illegible] have 7 thousands, Compare the hundreds: 3 hundreds is gre[illegible]r than 0 hundreds, so 7,305 is greater.

16. Create a four-digit number with 0 in the tens place and a 6 worth 6,000.

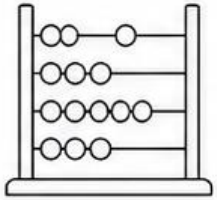
    Numeral: 6,405

    Expanded form: 6,000 + 400 + 5

    In words: six thousand four hundred and five



PLACE VALUE TO 10,000 RUBRIC



Student: _____ Date: _____

CRITERIA	BEGINNING (1)	DEVELOPING (2)	SECURE (3)	EXTENDING (4)
1. Representing numbers	Needs support to read or build four-digit numbers.	Represents familiar four-digit numbers with some errors.	Accurately represents four-digit numbers in several ways.	Connects and explains several equivalent representations.
2. Place value and zero	Confuses digit position or the role of zero.	Identifies most place values with prompts.	Explains each digit's value, including zero placeholders.	Uses place value flexibly to rename numbers.
3. Expanded form and number names	Needs support to convert representations.	Converts some forms with minor errors.	Accurately converts numerals, words and expanded form.	Justifies conversions and spots incorrect forms.
4. Comparing and ordering	Needs support to compare four-digit numbers.	Compares or orders with occasional errors.	Accurately compares and orders four-digit numbers.	Explains comparisons using the first different place.
5. Reasoning and communication	Gives limited working or explanation.	Shows a partly clear strategy.	Shows clear working and uses place-value language.	Explains efficient strategies and checks conclusions.

Total: _____ / 20

Strength: _____

Next step: _____

Th	H	T	O
			

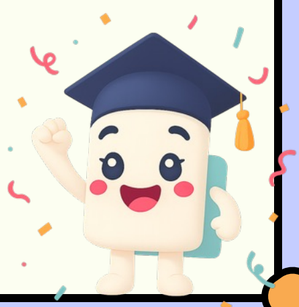
Place Value to 10,000

Learning Goa

Today we will:

- read and represent numbers t[illegible] 10,00[illegible]
- explain the value of each [illegible]it
- compare, order and [illegible]me fou[illegible]git numbers

Success: I can [illegible] numb[illegible]eral ways.



The Four Pla

A four-digit number uses four pla

Thousands (TH) • Hundred) • Tens (T) • Ones

Each move left is worth 1 as muc

Always begin reate

Read 6,472

6 thousands = 6,000

4 hundreds = 400

7 tens = 70

2 ones = 2

Read it as: six [illegible] four [illegible]nd seventy-two.

One Number, Many Forms

Standard form: 6,472

Word form: six thousand four hundred seventy-two

Expanded form: 6,000 + 400 + 70 + 2

Place-value chart: 6 | 4 | 7 | 2

Every form has the same value

Build with Base-Ten Blocks

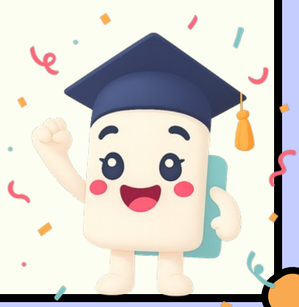
A thousand cube represents 1,000.

A hundred flat represents 10

A tens rod represents 10

A one cube represents 1.

To build 3,4 use 3 t usands, ndreds, 2 tens and 6 ones.



Expanded Notation

Split a number into the value of each digit:

4,376 = 4,000 + 300 + 70 +

8,052 = 8,000 + 50 + 2

Zero-value pl t nee nd.

Zero Holds the P...

In 4,205, the 0 shows there are no t...

In 7,030, the 0 shows there are ...o hun... ...r of...

A zero keeps every oth... ...igit in t... ...correct place.

Without it, the number c...

Digit and Val

A digit is the symbol you see.

Its value depends on its place

In 8,253:

- the digit is 8
- the place is
- the valu 8,000

Compare Four-Digit Numbers

Compare from the greatest place.

4,785 and 4,758 have the same thousands and hundreds.

Compare the tens: 8 tens > 5 tens

So, 4,785 > 4,7

Order Four-Digit Numbers

Order one place at a time, beginning with thousands.

Least to greatest:

2,690 • 2,906 • 2,960

Greatest to least:

7,810 • 7,[illegible] • 7,180 • [illegible]018

Rename Numbers

Regrouping changes how a number is named, but not its value.

5,000 = 50 hundreds

6,300 = 63 hundreds

4,070 = 407 tens

Use renaming to explain flexible place-value thinking.

Guided Practice

A. What is the value of the 8 in 8,252 → 8,000

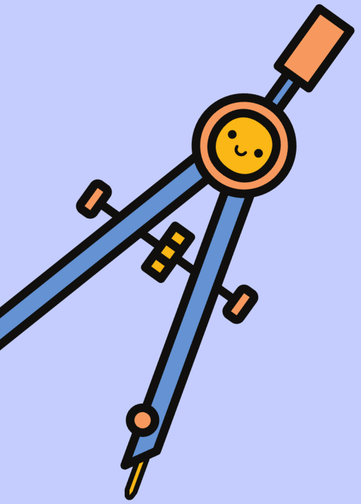
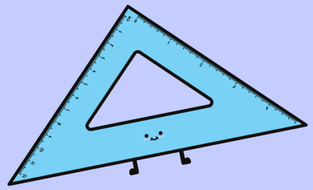
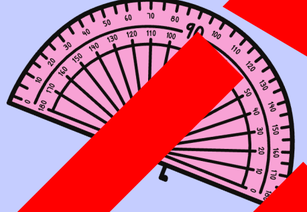
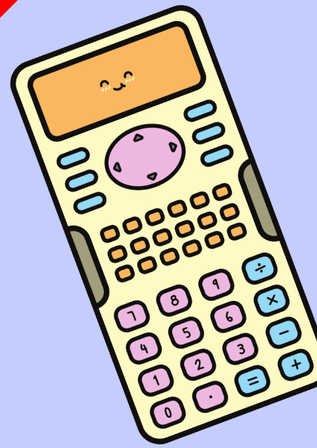
B. Expand 5,090. → 5,000 + 90

C. Compare 4,808 and 4,880 → 4,808 < 4,880

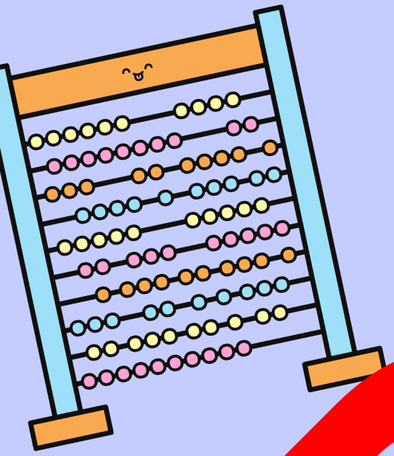
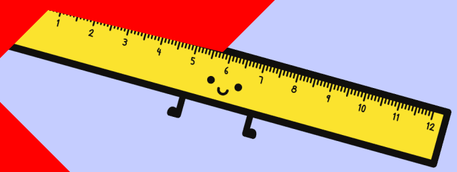
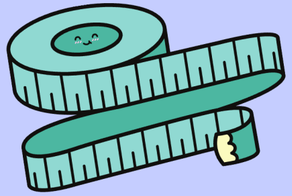
Say which place decided the answer.

Show What You [illegible]

1. Write 7,106 in words.
2. Write 3,000 + 400 + 20 + 7 [illegible] numeral.
3. Order 2,760, 2,706 and [illegible]67 from [illegible]ast to greatest.
4. Explain why zero ma[illegible] in 4[illegible]2.

Well Done!


Place Value to 10,000 Quiz

Question 1

What is the value of the 7 in 7,432?

A. 7 B. C. 700 D. 7,000

Answer I

D...00

...7 is i...e thousands place.

Question 2

Which is the expanded form of 5,608?

A. 5,000 + 600 +

B. ,000 + 60 + 8

C. 500 + 0 + 8

D. 00 + 608

Answer 2

A. 5,0[illegible]600

Th[illegible]are zero tens.

Question 3

Write 3,00 + 40 9 a numeral.

A. 249 B. 29 C. 3,492 D. 3,409

Answer 3

D 29

C bine the value in each place.

Question 4

Which numeral has 6 thousands, 5 hundreds, 5 tens and 2 ones?

A. 502 B. 552 C. 6,520 D. 6,025

Answer 4

D 52

Th ro h s the hundreds place.

Question 5

Which is th word form f 8,014?

A. eigh housand one hund and four

. eight t usand and fourteen

t hundr and fourteen

D. t th sand and forty

Answer 5

B. eight thou[illegible]and [illegible]ourteen

8,014 has 8 [illegible]usan[illegible], 0 hundreds, 1 ten and 4 ones.

Question 6

Choose the correct comparison.

4,785 ___ 4,7

A. < B. C. =

Answer 6

The thousands and hundreds match. Compare the tens: 8 > 5.

Question 7

Order fr[illegible]least to g[illegible]test.

2,906 2,690 2,96[illegible]

[illegible]. 2,690 [illegible]06, 2,960

[illegible], 2,960, 2,690

C. 2,960, 2,906, 2,690

Answer 7

A. 2,69[illegible]06, 2,[illegible]50

Co[illegible]re th[illegible]undreds, then the tens.

Question 8

What digit is missing?

9,_3_ has a hundreds value of 200.

A. 0 B. 2 C. 3 D. 9

Answer 8

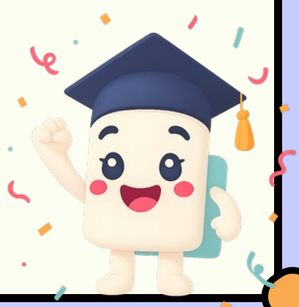
A 2 in t[illegible]und[illegible]s place has a value of 200.

Question 4

Is this statement true?

4,300 + 70 + 6 = 4,

A. Yes B. No



Answer 9

000 + 0 + 70 + 6 = 4,376.

Question 10

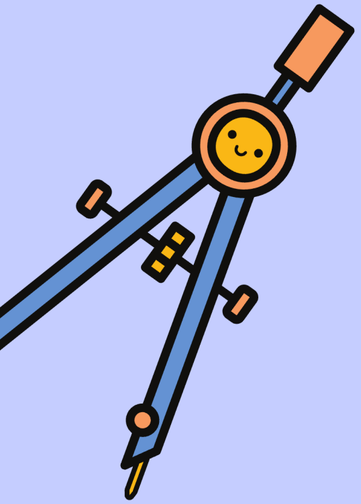
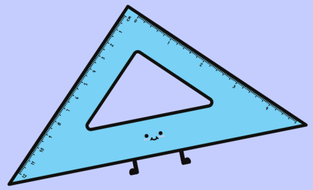
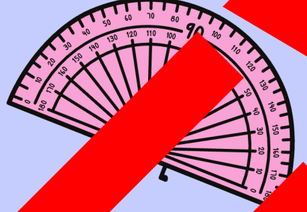
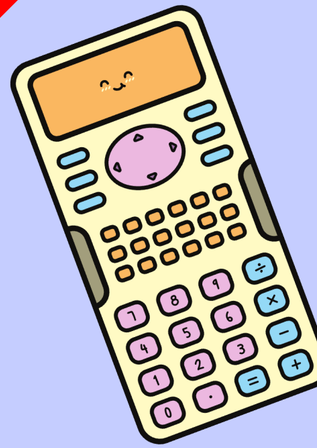
Rename 5,0 hund ds.

Writ our ans : _____

Answer 10

50 [illegible]reds

5[illegible] 100 = 5,000.

Well Done!