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Place Value 250–500 – Year 2

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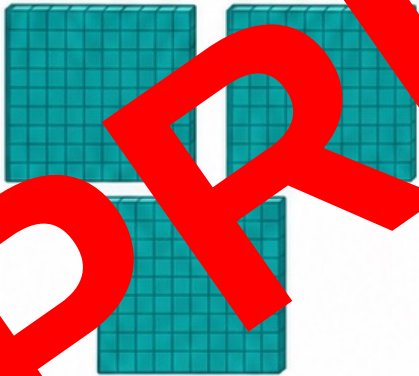
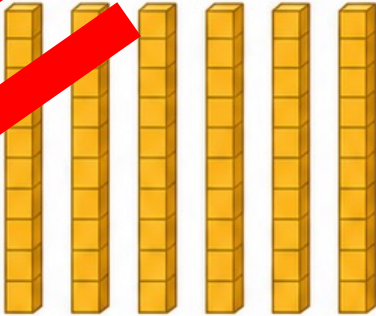
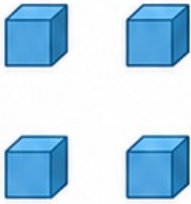


PLACE VALUE

★ 250-500 ★

364

3 hundreds 6 tens 4 ones

HUNDREDS	TENS	ONES
		

$300 + 60 + 4$

36 tens + 4 ones

$364 > 346$

PLACE VALUE CAFÉ



HUNDREDS

TENS

ONES



TODAY'S ORDER



1. Pick an order card.
2. Read the number.
3. Say the number to partition it.



PLACE VALUE CAFÉ — ORDER CARDS



257



348



450



204



371



468



309



405



402



326



427



500



PREVIEW



PLACE VALUE CAFÉ



CHALLENGE CARDS

Build 10
more than 284



Rename 326
using tens
and ones



Put 257, 275,
295 in order



Build 10
less than 71



Rename 465
using hundreds
and ones



Make a number
between 468
and 480



Show 309
with no tens



Which is
greater: 348
or 384?



Build 500
in two ways



Show 450
with no ones



Which is
smaller: 427
or 472?



Explain
the zero in 405



RACE TO 500



Roll a die and move.
Follow the space.
Answer correctly to stay.
First to FINISH wins.



1 2 3 4 5 6 7 8

PICK A NUMBER CARD

MOVE BACK 1

MOVE AHEAD 2

9 10 11 12 13 14 15 16

MOVE BACK 1

PICK A CHALLENGE CARD

17 18 19 20 21 22 23 24

MOVE AHEAD 2

PICK A NUMBER CARD

25 26 27 28 29 30 31 32

MOVE BACK 1

PICK A CHALLENGE CARD





RACE TO 500 — NUMBER CARDS




266
Say it. Partition it.



291
Say it. Partition it.



304
Say it. Partition it.



338
Say it. Partition it.



352
Say it. Partition it.



379
Say it. Partition it.



401
Say it. Partition it.



423
Say it. Partition it.



447
Say it. Partition it.



469
Say it. Partition it.



488
Say it. Partition it.



496
Say it. Partition it.






RACE TO 500 — CHALLENGE CARDS



What is
10 more
than 338?



What is the
value of 4
in 447?



Order
266, 296, 286



What is
10 more
than 401?



Partition 496



Name a number
between 469
and 480



What is
100 more
than 291?



Name 352
in tens
and ones



True or false:
304 has 3 tens



What is the
value of 7
in 379?



Compare
423 and 432

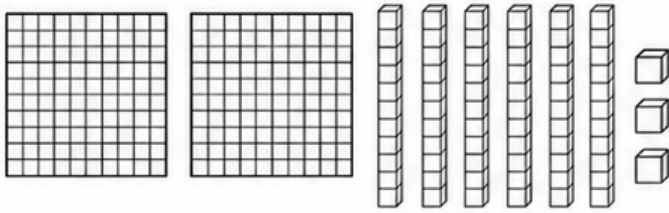


True or false:
500 has 5
hundreds

BUILD AND READ NUMBERS — PAGE 1

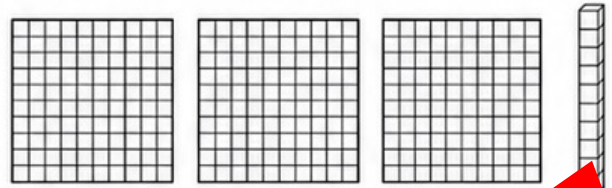
Name: _____

1.



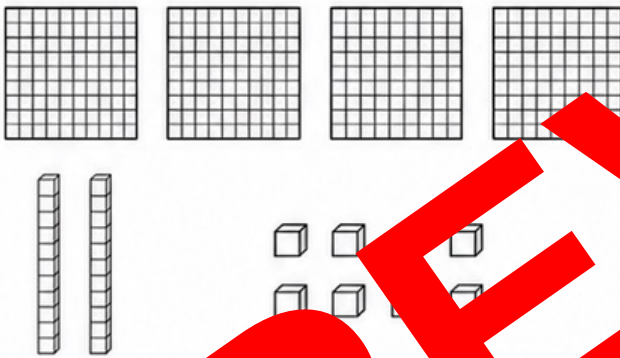
Numeral:

2.



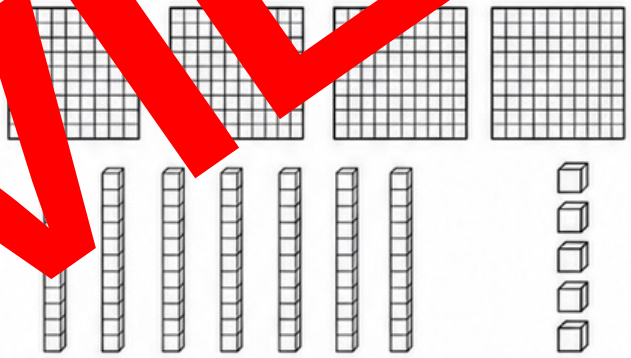
Numeral:

3.



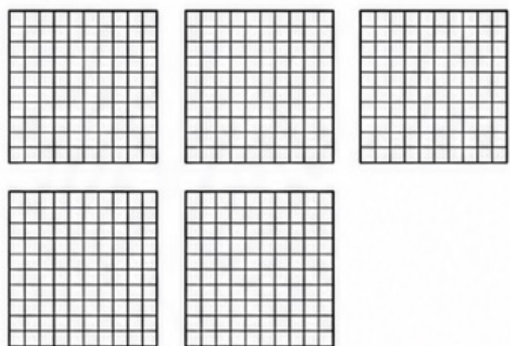
Numeral:

4.



Numeral:

6.



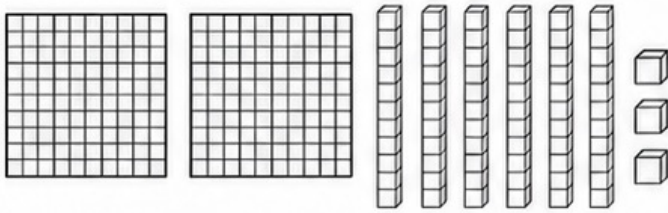
Numeral:

Numeral:

BUILD AND READ NUMBERS — PAGE 1

ANSWERS

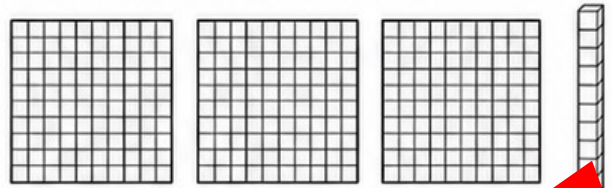
1.



Numeral:

263

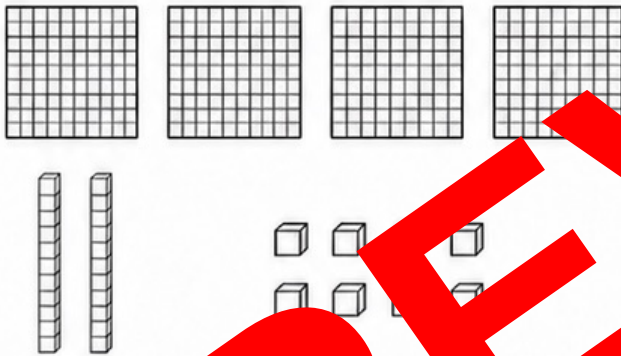
2.



Numeral:

310

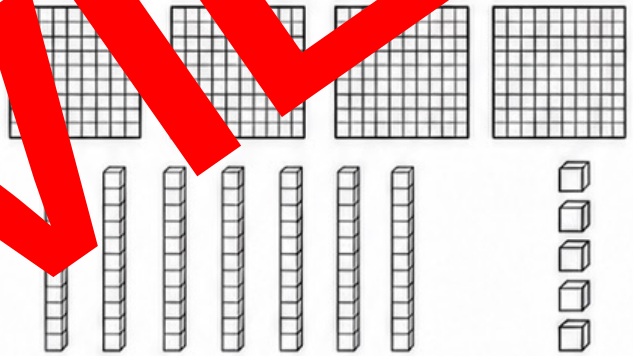
3.



Numeral:

420

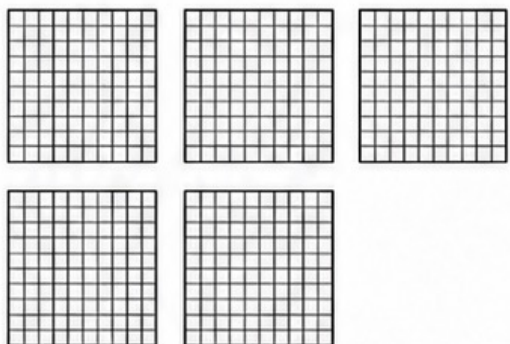
4.



Numeral:

475

6.



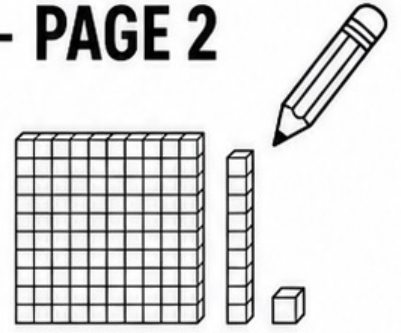
Numeral:

500

294

BUILD AND READ NUMBERS — PAGE 2

Name: _____



- ① two hundred and seventy-five

Numeral:

- ② three hundred and four

Numeral:

- ③ three hundred and ninety-two

Numeral:

- ④ four hundred and sixteen

Numeral:

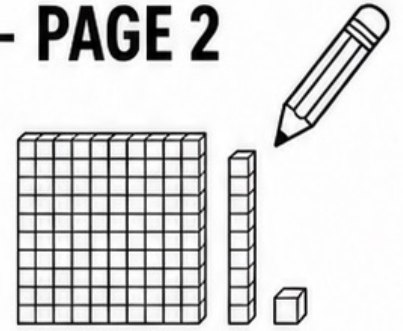
- ⑤ four hundred and eighty

Numeral:

- ⑥ five hundred

Numeral:

BUILD AND READ NUMBERS — PAGE 2



ANSWERS

- ① two hundred and seventy-five

Numeral:

275

- ② three hundred and four

Numeral:

304

- ③ three hundred and ninety-two

Numeral:

392

- ④ four hundred and sixteen

Numeral:

416

- ⑤ four hundred and eighty

Numeral:

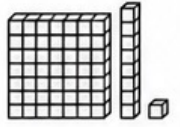
480

- ⑥ five hundred

Numeral:

500

DIGIT VALUE AND ZERO — PAGE 1



Name: _____

Write the value of the underlined digit.

1)

284

2)

384

3)

347

4)

405

5)

450

6)

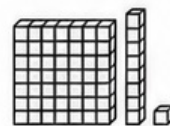
296

7)

431

8)

472



ANSWERS

Write the value of the underlined digit.

1)

284

200

2)

384

80

3)

347

40

4)

405

0

5)

450

50

6)

296

90

7)

431

30

8)

472

70

DIGIT VALUE AND ZERO – PAGE 2

Name: _____



Circle TRUE or FALSE.

1) 405 has 4 hundreds, 0 tens and 5 ones.

TRUE

FALSE

2) 450 has 4 hundreds, 5 tens and 0 ones.

TRUE

FALSE

3) 304 is the same as 3 hundreds and 4 tens.

TRUE

FALSE

4) 290 has 2 hundreds, 9 tens and 0 ones.

TRUE

FALSE

5) 500 has 5 hundreds, 0 tens and 0 ones.

TRUE

FALSE

6) 370 is the same as 37 tens.

TRUE

FALSE

Fix one false statement:

DIGIT VALUE AND ZERO – PAGE 2

ANSWERS



Circle TRUE or FALSE.

1) 405 has 4 hundreds, 0 tens and 5 ones.

TRUE

FALSE

2) 450 has 4 hundreds, 5 tens and 0 ones.

TRUE

FALSE

3) 304 is the same as 3 hundreds and 4 tens.

TRUE

FALSE

4) 290 has 2 hundreds, 9 tens and 0 ones.

TRUE

FALSE

5) 500 has 5 hundreds, 0 tens and 0 ones.

TRUE

FALSE

6) 370 is the same as 37 tens.

TRUE

FALSE

Fix one false statement:

304 is 3 hundreds, 0 tens and 4 ones.

PARTITION AND REGROUP — PAGE 1



Name: _____

Write each number in expanded form.

1. 258

+ +

2. 306

+ +

3. 349

+ +

4. 572

+ +

5. 415

+ +

6. 460

+ +

7. 487

+ +

8. 500

+ +

PARTITION AND REGROUP — PAGE 1



ANSWERS

Write each number in expanded form.

1. 258

$200 + 50 + 8$

2. 306

$300 + 0 + 6$

3. 349

$300 + 40 + 9$

4. 372

$300 + 70 + 2$

5. 415

$400 + 10 + 5$

6. 460

$400 + 60 + 0$

7. 487

$400 + 80 + 7$

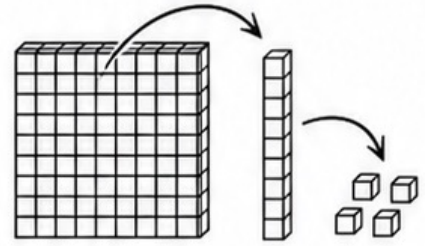
8. 500

$500 + 0 + 0$

PARTITION AND REGROUP — PAGE 2

Name: _____

Complete each flexible partition.



1) $284 = \underline{\quad}$ tens + $\underline{\quad}$ ones

2) $326 = \underline{\quad}$ hundreds + $\underline{\quad}$ tens + $\underline{\quad}$ ones

3) $405 = \underline{\quad}$ hundreds + $\underline{\quad}$ ones

4) $370 = \underline{\quad}$ tens

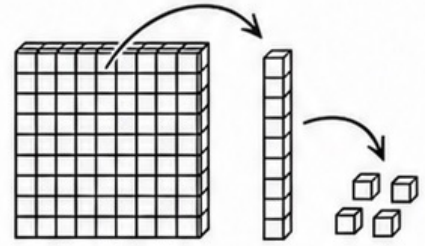
5) $92 = \underline{\quad}$ hundreds + $\underline{\quad}$ tens + $\underline{\quad}$ ones

6) $500 = \underline{\quad}$ tens

Show 356 in one other correct way:

PARTITION AND REGROUP — PAGE 2

ANSWERS



Complete each flexible partition.

1) $284 = \underline{28} \text{ tens} + \underline{4} \text{ ones}$

2) $326 = \underline{3} \text{ hundreds} + \underline{1} \text{ ten} + \underline{6} \text{ ones}$

3) $405 = \underline{4} \text{ hundreds} + \underline{5} \text{ ones}$

4) $370 = \underline{37} \text{ tens}$

5) $924 = \underline{9} \text{ hundreds} + \underline{2} \text{ tens} + \underline{4} \text{ ones}$

6) $500 = \underline{50} \text{ tens}$

Show 356 in one other correct way:

$35 \text{ tens} + 6 \text{ ones}$

COMPARE NUMBERS — PAGE 1



Name: _____

Write $<$, $>$ or $=$ in each circle.

- | | | | |
|-----|-----|---|-----|
| 1) | 284 | ○ | 248 |
| 2) | 306 | ○ | 360 |
| 3) | 415 | ○ | 415 |
| 4) | 492 | ○ | 415 |
| 5) | 310 | ○ | 305 |
| 6) | 267 | ○ | 276 |
| 7) | 408 | ○ | 480 |
| 8) | 399 | ○ | 400 |
| 9) | 470 | ○ | 407 |
| 10) | 500 | ○ | 499 |

COMPARE NUMBERS — PAGE 1

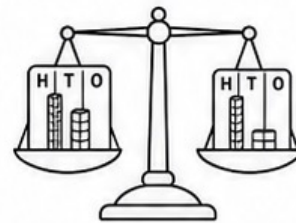


ANSWERS

Write $<$, $>$ or $=$ in each circle.

- | | | | |
|-----|-----|-----|-----|
| 1) | 284 | $>$ | 248 |
| 2) | 306 | $<$ | 360 |
| 3) | 415 | $=$ | 415 |
| 4) | 492 | $>$ | 429 |
| 5) | 300 | $>$ | 305 |
| 6) | 267 | $<$ | 276 |
| 7) | 408 | $<$ | 480 |
| 8) | 399 | $<$ | 400 |
| 9) | 470 | $>$ | 407 |
| 10) | 500 | $>$ | 499 |

COMPARE NUMBERS — PAGE 2



Name: _____

Compare each pair using place value.

1)

372 and 327

H	T	O

Which is greater? Explain using place value.

2)

405 and 450

H	T	O

Which is greater? Explain using place value.

3)

251 and 302

H	T	O

Which is greater? Explain using place value.

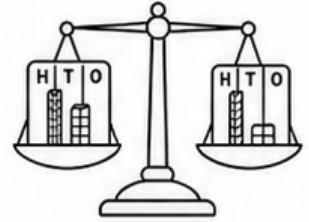
4)

461 and 416

H	T	O

Which is greater? Explain using place value.

COMPARE NUMBERS — PAGE 2



ANSWERS

Compare each pair using place value.

1)

372 and 327

H	T	O
3	7	2
3	2	7

Which is greater? Explain using place value.

372; same hundreds, 7 tens is greater than 2 tens.

2)

405 and 450

H	T	O
4	0	5
4	5	0

Which is greater? Explain using place value.

450; same hundreds, 5 tens is greater than 0 tens.

3)

302 and 202

H	T	O
2	9	8
3	0	2

Which is greater? Explain using place value.

302; 3 hundreds is greater than 2 hundreds.

4)

461 and 416

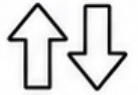
H	T	O
4	6	1
4	1	6

Which is greater? Explain using place value.

461; same hundreds, 6 tens is greater than 1 ten.

ORDER AND LOCATE NUMBERS – PAGE 1

Name: _____



Smallest to largest

1) 284, 248, 268

	→		→	
--	---	--	---	--

2) 405, 450, 415

	→		→	
--	---	--	---	--

3) 399, 309, 390

	→		→	
--	---	--	---	--

4) 472, 427, 400

	→		→	
--	---	--	---	--

Largest to smallest

5) 256, 265, 295

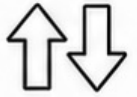
	→		→	
--	---	--	---	--

6) 500, 450, 490

	→		→	
--	---	--	---	--

ORDER AND LOCATE NUMBERS – PAGE 1

ANSWERS



Smallest to largest

1) 284, 248, 268



2) 405, 450, 415



3) 399, 309, 390



4) 472, 427, 470



Largest to smallest

5) 256, 265, 295



6) 500, 450, 490



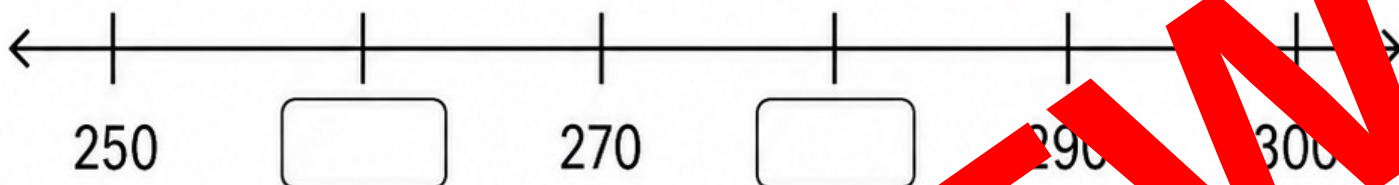
ORDER AND LOCATE NUMBERS — PAGE 2



Name: _____

Complete the labels. Then mark and label the target number.

1. 250 to 300 — count by 10s



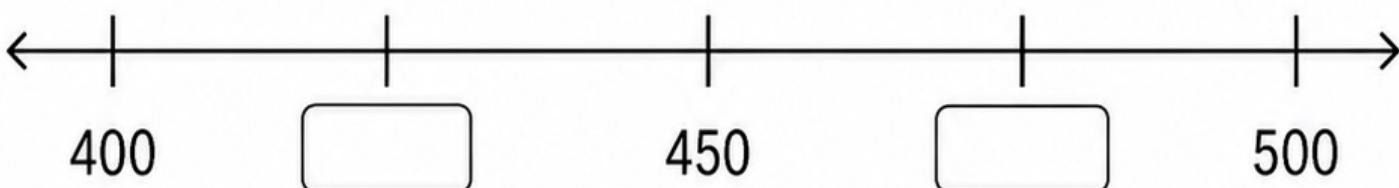
Target: 275

2. 300 to 400 — count by 20s



Target: 360

3. 400 to 500 — count by 25s



Target: 450

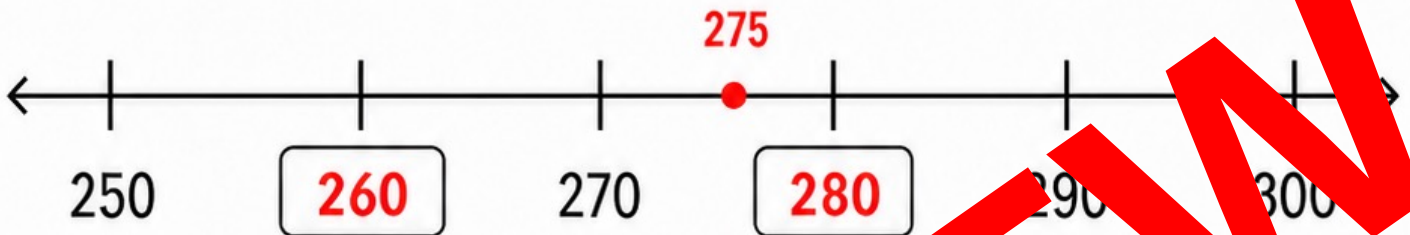
ORDER AND LOCATE NUMBERS — PAGE 2



ANSWERS

Complete the labels. Then mark and label the target number.

1. 250 to 300 — count by 10s



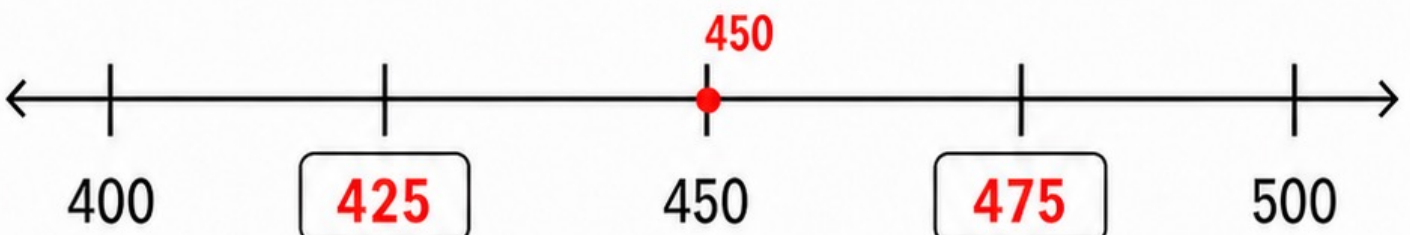
Target: 275

2. 300 to 400 — count by 20s



Target: 360

3. 400 to 500 — count by 25s



Target: 450

PLACE VALUE MARKET CHALLENGE — PAGE 1

Name: _____

Four market baskets hold 286, 304, 375 and 492 tokens.



1) Write 286 in words.

2) Complete the place-value chart for 304.

H	T	O

3) Draw a base-ten model for 492.

4) Write 375 in standard expanded form.

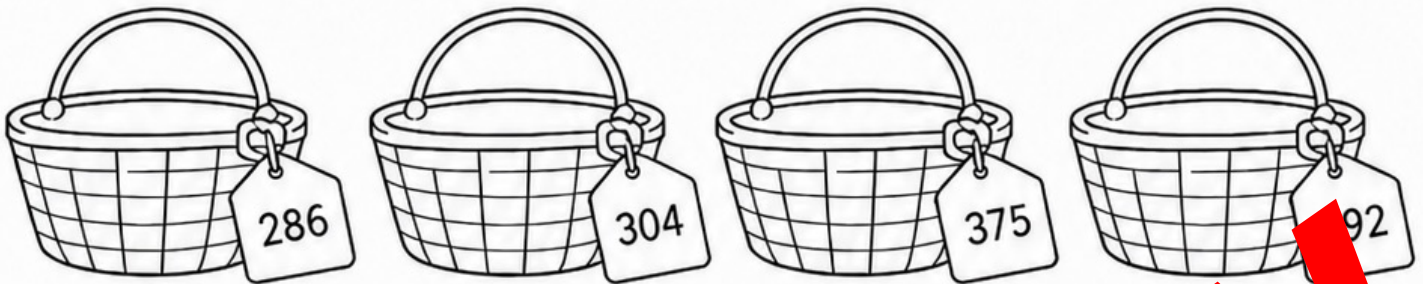
+ +

5) Show 375 in one flexible way. Then explain the zero in 304.

PLACE VALUE MARKET CHALLENGE — PAGE 1

ANSWERS

Four market baskets hold 286, 304, 375 and 492 tokens.



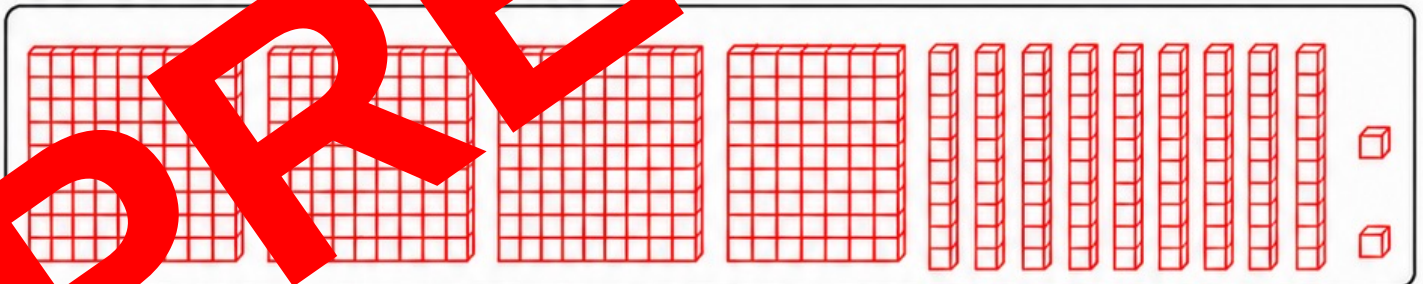
1) Write 286 in words.

two hundred and eighty-six

2) Complete the place-value chart for 304.

H	T	O
3	0	4

3) Draw a base-ten model for 492.



4) Write 375 in standard expanded form.

$$300 + 70 + 5$$

5) Show 375 in one flexible way. Then explain the zero in 304.

37 tens + 5 ones. The zero shows there are no tens.

PLACE VALUE MARKET CHALLENGE – PAGE 2

Name: _____



1. Compare 258 and 285. Write $<$, $>$ or $=$, then explain using place value.

258 ○ 285

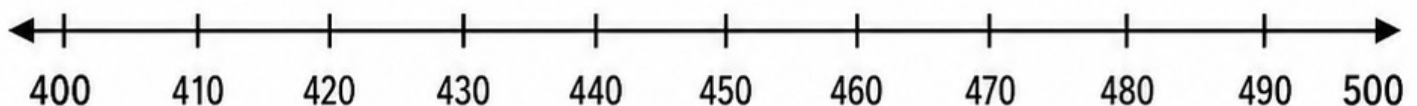
2. Order all five stall totals from least to greatest.

--	--	--	--

3. Which stall is closest to 425? Write the number between 400 and 450?

--

4. Mark and label 405 and 498 on the number line.



5. What is 10 more than 450?

$$450 + 10 = \boxed{}$$

PLACE VALUE MARKET CHALLENGE – PAGE 2

Name: **ANSWERS**



1. Compare 258 and 285. Write $<$, $>$ or $=$, then explain using place value.

258 $<$ 285

258 $<$ 285 because 5 tens is less than 8 tens.

2. Order all five stall totals from least to greatest.

258

285

405

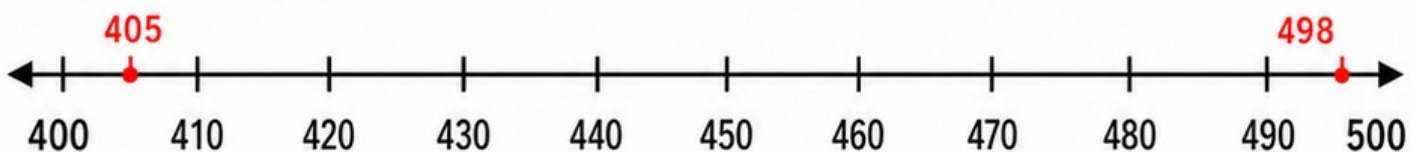
450

498

3. Which stall totals are between 400 and 450?

405

4. Mark and label 405 and 498 on the number line.



5. What is 10 more than 450?

450 + 10 = 460

PLACE VALUE 250–500 RUBRIC

Student: _____

Date: _____

	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Represents numbers	Represents some numbers with substantial support.	Represents numbers in materials and prompts.	Accurately represents numbers to 500.	Represents numbers in several accurate ways.	Selects efficient models and explains connections.
Reads and writes numbers	Reads or writes some numbers with support.	Reads and writes familiar numbers with prompts.	Accurately reads and writes numbers to 500.	Reads and writes numbers fluently in varied forms.	Explains links among numerals, words and models.
Explains digit value and zero	Identifies some digit values with support.	Identifies digit values with prompts.	Explains hundreds, tens, ones and zero accurately.	Explains digit value across varied examples.	Justifies how place changes value and zero acts.
Partitions and regroups	Partitions simple numbers with substantial support.	Uses standard partitions with prompts.	Partitions numbers accurately.	Uses standard and flexible partitions confidently.	Creates and justifies multiple efficient partitions.
Compares numbers	Compares some numbers with substantial support.	Compares using materials or prompts.	Accurately compares numbers to 500.	Compares efficiently and explains place-value differences.	Justifies comparisons using multiple representations.
Orders and locates numbers	Orders or locates some numbers with support.	Orders and locates numbers with prompts.	Accurately orders and locates numbers to 500.	Orders and locates numbers on a number line.	Justifies placement and estimates between benchmarks.

PLACE VALUE
250-300

PREVIEW



Learning intentions

We are learning:

- represent and order numbers to 500

• explain hundreds, tens, ones and zero

• partition and recombine numbers in different ways



Place value tells us what a digit is worth

In 364

3 is worth 300

6 is worth 60

4 is worth 4



Three-digit numbers have hundreds, tens and ones

HUNDREDS TENS ONES

2 6 4

264 means 2 hundreds, 6 tens and 4 ones.



Build 263

2 hundreds + 6 tens + 3 ones

$$200 + 60 + 3 = 263$$

PREVIEW

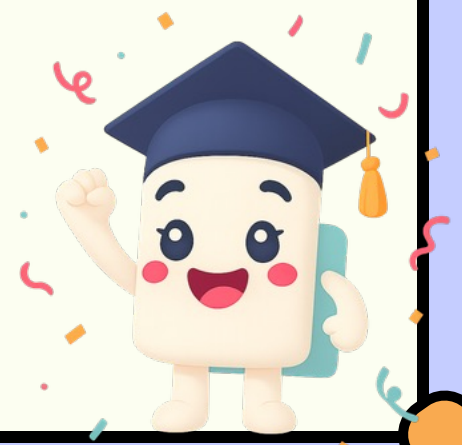


Build 418

4 hundreds + 1 ten + 8 ones

$$400 + 10 + 8 = 418$$

PREVIEW



Ten ones can regroup as one ten

10 ones = ten

1 ten = ten + 6 ones

326 = 3 hundreds + ten + 16 ones

PREVIEW



Ten tens can regroup as one
hundred

10 tens = 1 hundred

2 tens + 1 ones = 21

2 hundreds + 8 tens + 4 ones = 284



Standard partitioning uses each place

$$375 = 300 + 70 + 5$$

$$4 \text{ hundreds} + 5 \text{ tens} + 0 \text{ ones} = 450$$

PREVIEW



Flexible partitioning shows another correct way

$$375 = 37 \text{ tens} + 5 \text{ ones}$$

$$375 = 3 \text{ hundreds} + 7 \text{ tens} + 5 \text{ ones}$$

PREVIEW



One number can have many correct partitions

$$492 = 400 + 90 + 2$$

$$492 = 49 \text{ tens} + 2 \text{ ones}$$

$$492 = 4 \text{ hundreds} + 9 \text{ tens} + 12 \text{ ones}$$



Zero holds an empty place

405 has 4 hundreds, 0 tens, and 5 ones.

The zeros show there are no tens.

405 is not 45.



Read the whole number

286 is two hundred and eight six.

304 is three hundred and four.

450 is four hundred and fifty.

PREVIEW



Locate numbers between benchmarks

250 — 300 — 350 — 400 — 450 — 500

A number's position shows its size.

400 sits just over 400.



Count forwards and backwards in patterns

By ones: 356, 357, 358

By tens: 356, 366, 376

By hundreds: 256, 356, 456



Compare the hundreds first

$$298 < 312$$

2 hundreds is less than 3 hundreds.



If the hundreds match, compare the
tens

$$372 > 317$$

Each has 3 hundreds

7 tens is greater than 1 ten.



If hundreds and tens match, compare the
ones

$$468 > 411$$

Both have 4 hundreds and 6 tens.

8 ones is greater than 1 one.



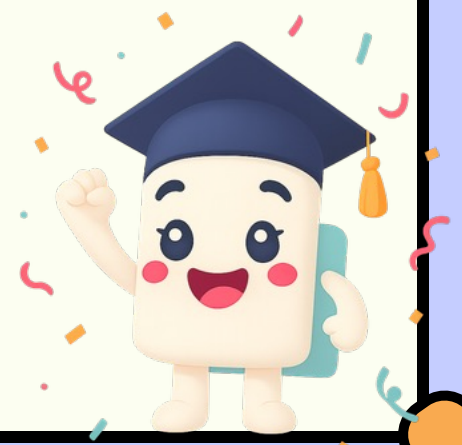
Use comparison symbols

$<$ means less than

$>$ means greater than

$=$ means equal to

PREVIEW



Ascending order goes from least to greatest

258, 268, 86

Compare hundreds then tens then ones.

PREVIEW



Descending order goes from greater to least

498, 450, 405

Start with the greatest value.

PREVIEW



Estimate before placing a number

386 is between 300 and 400.

It is closer to 400 than 300.

Use rounding benchmarks to check.



Guided example: 386

Read: three hundred and eighty-six

Partition: 300 + 80 + 6

Flex: 38 tens + 6 ones

Compare: $386 > 368$



Quick review

Can you:

- represent a number in two ways?

- explain the value of zero?

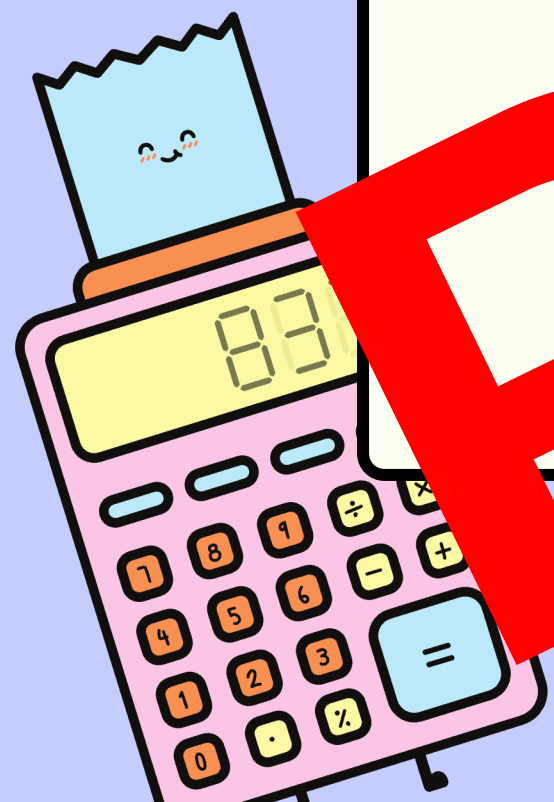
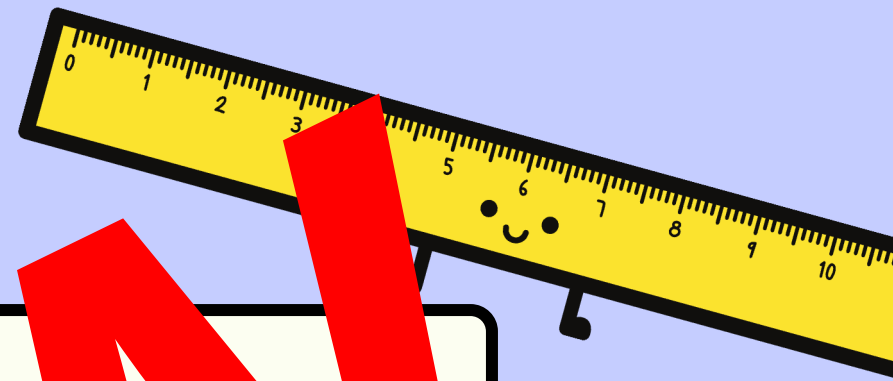
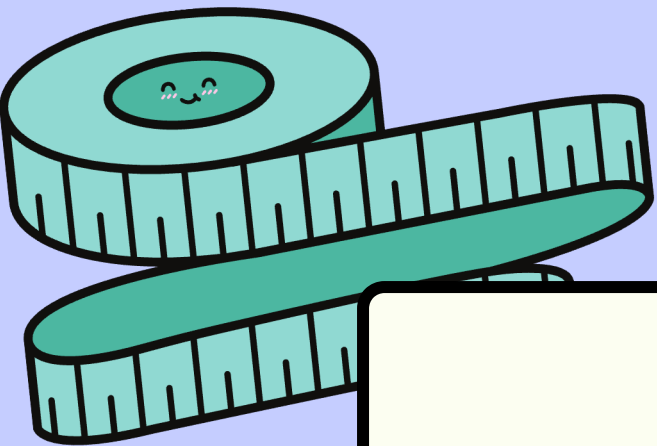
- compare and order numbers to 500?





PLACE VALUE 250-500 QUIZ

PREVIEW



Question 1 – Multiple choice

Which is the expanded form of 372?

A. $3 + 7 + 2$

B. $300 + 7 + 2$

C. $3 + 70 + 2$

D. $300 + 72 + 0$



Answer 1

A. $300 + 70 + 2$

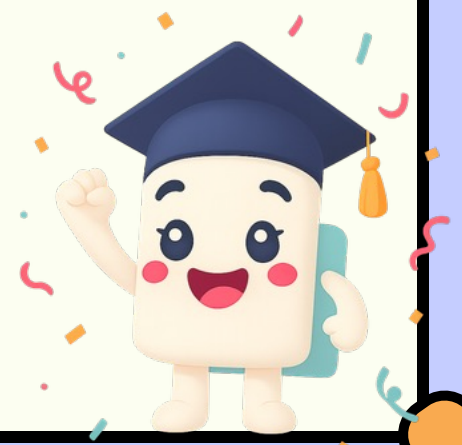
3 hundreds, 7 tens and 2 ones make 372.



Question 2 – Short answer

What is the value of the digit 6 in 463?

PREVIEW



Answer 2

60

This is in the tens place.

PREVIEW



Question 3 – True or false?

407 is the same as 4 hundred and 7 tens

True or false?

PREVIEW



Answer 3

False

407 is 4 hundreds, 0 tens and 7 ones.



Question 4 – Multiple choice

Which number name matches 32?

A. three hundred and eight–two

B. three hundred and twenty-eight

C. three hundred and eight

D. three hundred and eighty



Answer 4

A. three hundred and eighty-two

PREVIEW

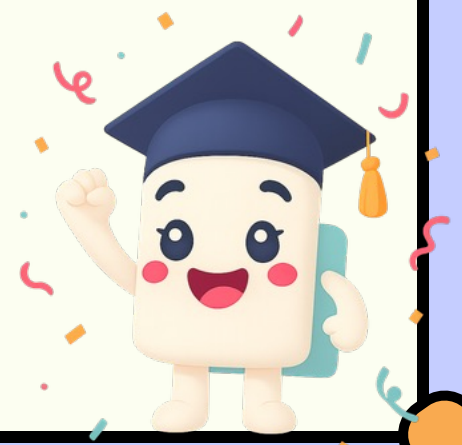


Question 5 – Short answer

Complete the partition.

25 = _____ tens + 6 ones

PREVIEW



Answer 5

35 terms

2 tens + 1 ones = 35

PREVIEW



Question 6 – Multiple choice

Choose the correct symbol

$$29 \text{ — } 2$$

A. >

B. <

C. =

D. cannot tell



Answer 6

B. <

297 < 302 because 2 hundreds is less than 3 hundreds.



Question 7 – True or false?

450 comes immediately before 505.

True or false?

PREVIEW



Answer 7

False

405 comes before 450 on a number line.

PREVIEW



Question 8 – Short answer

Order these numbers from least to greatest

260, 386, 58

PREVIEW



Answer 8

258, 268, 86

PREVIEW



Question 9 – Multiple choice

What is 10 more than 489

A. 499

B. 400

C. 590

D. 479



Answer 9

A. 49

Adding 10 increases the tens digit by 1.

PREVIEW



Question 10 – True or false

350 = 3 hundred + 5 ones

True or false?

PREVIEW



Answer 10

False

350 is 3 hundreds + 5 tens + 0 ones.

PREVIEW



