

Name _____

Date _____

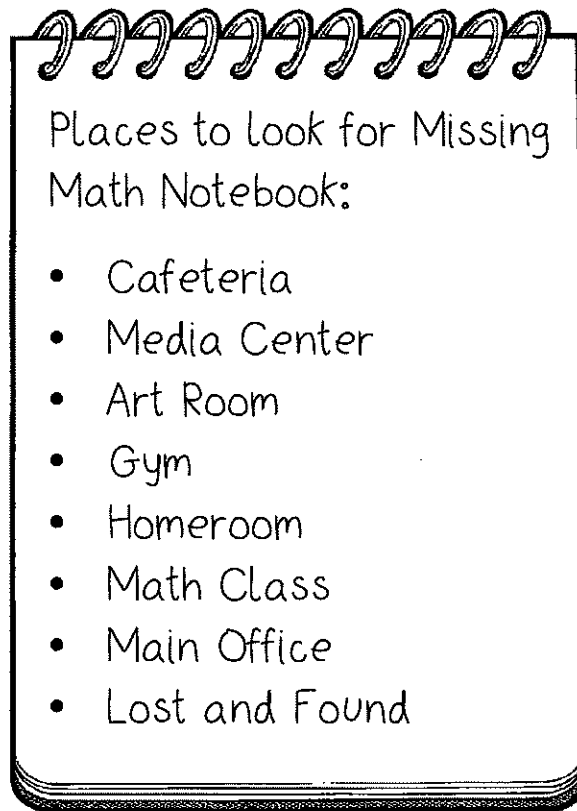
The Case of the Missing Math Notebook



"Why so glum Matt?" questioned Zoe.

"I can't find my math notebook... and it is due tomorrow! I need that notebook to keep my A in math. Worse still, I don't want Ms. Wylder to think that I am irresponsible."

"Cheer up Matt! I am sure that it will turn up. In fact, I'll help you look for it. Let's make a list of all of the places it might be."



"The last place that I remember having it was at lunch, so we should start in the cafeteria."

"I have a good feeling that we are going to find that notebook," Zoe said encouragingly.



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The Case of the Missing Math Notebook - Cafeteria

"The notebook was here, but it's not here anymore. I'll give you a clue as to where it is now, but you will have to solve some math problems first," grumbled the lunch lady Ms. Baffle.

Write each of the numbers in expanded form. The letter that goes with each answer will help you figure out the clue. The first one has been done for you.

Write each number in expanded form.

$$37,453 = \frac{30,000}{A} + \frac{\quad}{D} + \frac{\quad}{E} + \frac{\quad}{F} + \frac{\quad}{G}$$

$$43,621 = \frac{\quad}{I} + \frac{\quad}{K} + \frac{\quad}{L} + \frac{\quad}{M} + \frac{\quad}{N}$$

$$126,534 = \frac{\quad}{O} + \frac{\quad}{R} + \frac{\quad}{S} + \frac{\quad}{T} + \frac{\quad}{U} + \frac{\quad}{V}$$

Clue:

$\frac{\quad}{40,000}$	$\frac{3}{\quad}$	$\frac{A}{30,000}$	$\frac{\quad}{4}$	$\frac{\quad}{400}$	$\frac{\quad}{40,000}$	$\frac{\quad}{500}$	$\frac{\quad}{500}$	$\frac{\quad}{100,000}$		
$\frac{\quad}{20}$	$\frac{\quad}{20,000}$	$\frac{\quad}{50}$	$\frac{\quad}{600}$	$\frac{\quad}{30}$	$\frac{\quad}{6,000}$	$\frac{\quad}{500}$	$\frac{\quad}{400}$	$\frac{\quad}{20,000}$	$\frac{\quad}{500}$	$\frac{\quad}{100,000}$
$\frac{\quad}{500}$	$\frac{A}{30,000}$	$\frac{\quad}{3,000}$	$\frac{\quad}{400}$	$\frac{\quad}{500}$	$\frac{\quad}{100,000}$	$\frac{\quad}{600}$	$\frac{\quad}{100,000}$	$\frac{\quad}{6,000}$	$\frac{\quad}{500}$	
$\frac{A}{30,000}$	$\frac{\quad}{1}$	$\frac{\quad}{7,000}$	$\frac{\quad}{50}$	$\frac{\quad}{100,000}$	$\frac{\quad}{30}$	$\frac{\quad}{1}$	$\frac{\quad}{7,000}$			

Zoe beamed, "That was great help Ms. Baffle! One step closer to finding that notebook!"

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The Case of the Missing Math Notebook – Lost & Found

"Tons of stuff here," griped Matt, "but, the notebook isn't here."

"What are you looking for?" questioned the school secretary Ms. Mystify.

"Mr. Fluster was bringing a notebook here," said Zoe "But we can't find it..."

"I'll give you a clue as to where Mr. Fluster is, but you will have to solve some math problems first."

Write the value of the underlined digit. The first one has been done for you.

$$234, \underline{5}72 = \frac{70}{A}$$

$$\underline{1}7,319 = \frac{\quad}{C}$$

$$34, \underline{5}79 = \frac{\quad}{E}$$

$$\underline{4}63,199 = \frac{\quad}{F}$$

$$1, \underline{6}70,234 = \frac{\quad}{G}$$

$$5 \underline{4}1,007 = \frac{\quad}{H}$$

$$63, \underline{9}71 = \frac{\quad}{I}$$

$$7, \underline{5}67 = \frac{\quad}{K}$$

$$24, \underline{6}80 = \frac{\quad}{L}$$

$$468,3 \underline{3}1 = \frac{\quad}{N}$$

$$1,340,00 \underline{9} = \frac{\quad}{O}$$

$$\underline{1}6,754 = \frac{\quad}{R}$$

$$\underline{9}8,542 = \frac{\quad}{S}$$

$$186,7 \underline{3}2 = \frac{\quad}{T}$$

$$2 \underline{9},654 = \frac{\quad}{U}$$

$$541, \underline{2}25 = \frac{\quad}{V}$$

Clue:

$$\frac{\quad}{40,000} \quad \frac{\quad}{900} \quad \frac{\quad}{90,000} \quad \frac{\quad}{400,000} \quad \frac{A}{70} \quad \frac{\quad}{200} \quad \frac{\quad}{9} \quad \frac{\quad}{6,000} \quad \frac{\quad}{900} \quad \frac{\quad}{30} \quad \frac{\quad}{4,000}$$

$$\frac{\quad}{10,000} \quad \frac{\quad}{9} \quad \frac{\quad}{9} \quad \frac{\quad}{60} \quad \frac{\quad}{900} \quad \frac{\quad}{4,000} \quad \frac{\quad}{90,000} \quad \frac{A}{70} \quad \frac{\quad}{6,000} \quad \frac{\quad}{4,000} \quad \frac{\quad}{900} \quad \frac{\quad}{1}$$

$$\frac{\quad}{30} \quad \frac{\quad}{40,000} \quad \frac{\quad}{4,000} \quad \frac{\quad}{30} \quad \frac{\quad}{4,000} \quad \frac{A}{70} \quad \frac{\quad}{10,000} \quad \frac{\quad}{40,000} \quad \frac{\quad}{4,000} \quad \frac{\quad}{6,000} \quad \frac{\quad}{90,000}$$

$$\frac{\quad}{600} \quad \frac{\quad}{9} \quad \frac{\quad}{9,000} \quad \frac{\quad}{1} \quad \frac{\quad}{600,000} \quad \frac{\quad}{4,000}$$

Zoe smiled, "That was great help Ms. Mystify! Mr. Fluster loves cookies. We know where to look next."

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The Case of the Missing Math Notebook – Teachers' Lounge

"What are the two of you doing lurking out here?" questioned Mr. Fluster.

"We thought that you might have found my missing math notebook."

"Ah, yes... the notebook. I set it down and when I was getting ready to go it was gone. There was only one other person in here. I'll give you a clue as to who it was, but you will have to solve some math problems first."

Circle the number that matches the name. Use the letter to solve the clue.

1) One hundred eighty-seven thousand, fourteen	187,040 Z	187,014 A
2) Two million, eleven thousand, five hundred sixty-three	211,563 S	2,011,563 R
3) Thirteen thousand, three hundred thirteen	13,313 T	13,333 U
4) Four hundred six thousand, ninety-nine	406,099 T	406,990 V
5) Fifty-four thousand, eight hundred	854,000 D	54,800 E
6) Six million, seven hundred thousand, eighty	6,700,080 A	6,780,000 B
7) Seven hundred sixty thousand, one	760,001 C	761,000 D
8) Eight million, eight thousand, eight hundred	808,800 G	8,008,800 H
9) Nine hundred ninety-one thousand, four hundred	991,400 E	991,004 F
10) Ten million, ten thousand, ten	10,100,010 Q	10,010,010 R

Clue: The only other person in here was the...

$\frac{A}{1}$ $\frac{\quad}{2}$ $\frac{\quad}{3}$ $\frac{\quad}{4}$ $\frac{\quad}{5}$ $\frac{\quad}{6}$ $\frac{\quad}{7}$ $\frac{\quad}{8}$ $\frac{\quad}{9}$ $\frac{\quad}{10}$

Zoe cheered, "That was great help Mr. Fluster! We know where to look next."

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The Case of the Missing Math Notebook – Art Room

Ms. Clutter looked up from her painting. "I picked up the notebook by mistake," admitted the art teacher. "But I don't have it now. I'll give you a clue as to where it is, but you will have to solve some math problems first."

Circle the correct symbol. Use the letter beneath it to decode the clue.

1)	10,561	<input checked="" type="radio"/> $>$ M	<input type="radio"/> = N	<input type="radio"/> $<$ O	10,560
2)	257,854	<input type="radio"/> $>$ R	<input type="radio"/> = S	<input type="radio"/> $<$ T	257,854
3)	390,001	<input type="radio"/> $>$ B	<input type="radio"/> = C	<input type="radio"/> $<$ D	309,999
4)	447,808	<input type="radio"/> $>$ E	<input type="radio"/> = F	<input type="radio"/> $<$ G	54,788
5)	567,676	<input type="radio"/> $>$ Y	<input type="radio"/> = Z	<input type="radio"/> $<$ A	576,676
6)	64,088	<input type="radio"/> $>$ U	<input type="radio"/> = V	<input type="radio"/> $<$ W	64,800
7)	7,300,112	<input type="radio"/> $>$ X	<input type="radio"/> = Y	<input type="radio"/> $<$ Z	7,300,112
8)	8,638	<input type="radio"/> $>$ J	<input type="radio"/> = K	<input type="radio"/> $<$ L	9,003
9)	1,770	<input type="radio"/> $>$ B	<input type="radio"/> = C	<input type="radio"/> $<$ D	7,110
10)	1,000,000	<input type="radio"/> $>$ E	<input type="radio"/> = F	<input type="radio"/> $<$ G	999,999
11)	1,101,001	<input type="radio"/> $>$ Q	<input type="radio"/> = R	<input type="radio"/> $<$ S	1,101,001

Clue: I put it in someone's mailbox in the main office. It was...

M

1
2
3
4
5
6
7
8
9
10
11

"We know who that is!" Zoe stated gleefully. "That was great help Ms. Clutter! One step closer to finding that notebook!"

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The Case of the Missing Math Notebook – Main Office

"Back again?" queried Ms. Mystify.

"Ms. Clutter put the note book in our math teacher's mailbox. Can you pretty please let me get it?" asked Matt.

"Well, it was here," chuckled Ms. Mystify. "But it's not here now. I'll give you a clue, but you will have to solve some math problems first."

Round each number to the underlined digit. The first one has been done for you.

$$42,5\underline{7}4 = \frac{42,570}{A}$$

$$42,574 = \frac{\quad}{C}$$

$$\underline{4}2,574 = \frac{\quad}{D}$$

$$\underline{2}36,468 = \frac{\quad}{E}$$

$$236,468 = \frac{\quad}{H}$$

$$236,\underline{4}68 = \frac{\quad}{I}$$

$$1,345,543 = \frac{\quad}{J}$$

$$1,345,543 = \frac{\quad}{K}$$

$$1,345,543 = \frac{\quad}{L}$$

$$368,\underline{3}60 = \frac{\quad}{M}$$

$$368,360 = \frac{\quad}{P}$$

$$368,360 = \frac{\quad}{R}$$

$$\underline{9}8,392 = \frac{\quad}{S}$$

$$98,392 = \frac{\quad}{T}$$

$$98,392 = \frac{\quad}{U}$$

Clue:

100,000 236,000 200,000

1,350,000 98,000 100,000 98,390

368,000 236,500 43,000 1,000,000 200,000 40,000

98,000 368,000

236,000 200,000 370,000

A

368,400 42,570 236,500 1,300,000

Zoe grinned, "That was great help Ms. Mystify! We know where to look next."

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The Case of the Missing Math Notebook – Math Class

"Where have the two of you been?" questioned Ms. Wylder.

"I have to admit Ms. Wylder, that I lost my math notebook. I was trying to find it before you knew it was missing, but I am hoping that you might have located it," admitted Matt sheepishly.

"It somehow appeared in my mailbox. I'll give you a clue as to what I did with it, but you will have to solve some math problems first."

Multiply each number times a multiple of ten. The first one has been done for you.

$$9 \times 10 = \frac{90}{A}$$

$$65 \times 10 = \frac{\quad}{B}$$

$$10 \times 41 = \frac{\quad}{C}$$

$$10 \times 73 = \frac{\quad}{D}$$

$$8 \times 100 = \frac{\quad}{E}$$

$$64 \times 100 = \frac{\quad}{I}$$

$$100 \times 53 = \frac{\quad}{K}$$

$$100 \times 27 = \frac{\quad}{L}$$

$$41 \times 100 = \frac{\quad}{N}$$

$$100 \times 65 = \frac{\quad}{O}$$

$$9 \times 100 = \frac{\quad}{P}$$

$$73 \times 100 = \frac{\quad}{R}$$

$$1,000 \times 64 = \frac{\quad}{S}$$

$$1,000 \times 27 = \frac{\quad}{T}$$

$$53 \times 1,000 = \frac{\quad}{U}$$

$$8 \times 1,000 = \frac{\quad}{Y}$$

Clue:

$\frac{\quad}{6,400}$	$\frac{\quad}{900}$	$\frac{\quad}{2,700}$	$\frac{A}{90}$	$\frac{\quad}{410}$	$\frac{\quad}{800}$	$\frac{\quad}{730}$	$\frac{\quad}{8,000}$	$\frac{\quad}{6,500}$	$\frac{\quad}{53,000}$	$\frac{\quad}{7,300}$
$\frac{\quad}{4,100}$	$\frac{\quad}{6,500}$	$\frac{\quad}{27,000}$	$\frac{\quad}{800}$	$\frac{\quad}{650}$	$\frac{\quad}{6,500}$	$\frac{\quad}{6,500}$	$\frac{\quad}{5,300}$	$\frac{\quad}{6,400}$	$\frac{\quad}{4,100}$	
$\frac{\quad}{8,000}$	$\frac{\quad}{6,500}$	$\frac{\quad}{53,000}$	$\frac{\quad}{7,300}$		$\frac{\quad}{730}$	$\frac{\quad}{800}$	$\frac{\quad}{64,000}$	$\frac{\quad}{5,300}$		

"Thank you, Ms. Wylder!" exclaimed Matt.

"I think that the real person you need to thank is Zoe. I've heard that the two of you really got around today."

"Thank you, Zoe! I couldn't have done it without you!



























"No problem! Doing all that math to solve the clues was a lot of fun!"











Name _____












Date _____













Unlock the Secret Messages – Place Value 2











Use the cipher to decode the secret messages.













												
A	B	C	D	E	F	G	H	I	J	K	L	M
												
N	O	P	Q	R	S	T	U	V	W	X	Y	Z













         














          












           







         

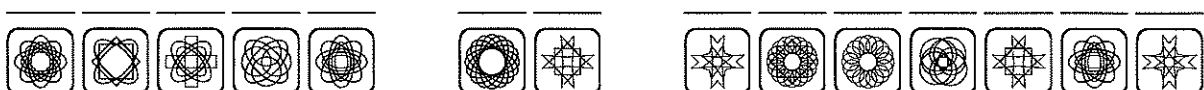
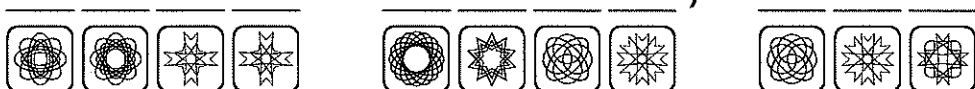
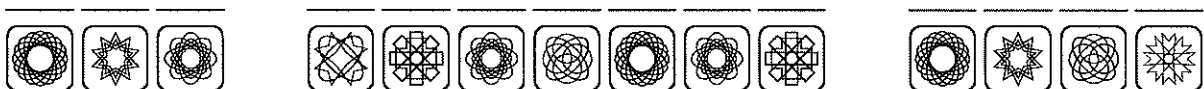
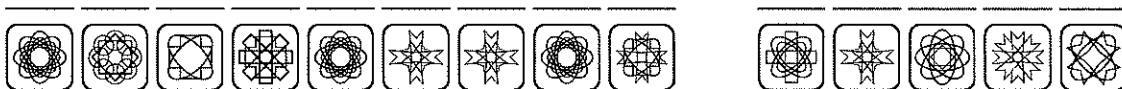
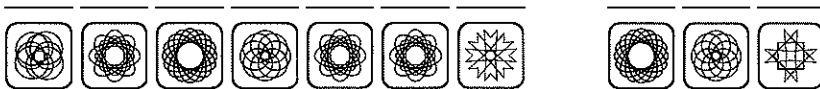
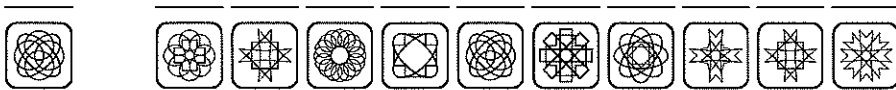
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Unlock the Secret Messages – Place Value 3

Use the cipher to decode the secret messages.

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z



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Date _____

Unlock the Secret Messages – Place Value 4

Use the cipher to decode the secret messages.

П	Б	С	А	Е	Г	Д	И	Ж	Т	К	Л	М
A	B	C	D	E	F	G	H	I	J	K	L	M
Н	В	Р	Т	З	Ш	Х	У	Ч	Щ	Ъ	Ы	Ь
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

З В У Н А Ж В Д Ж Ш П Н

Е Ш Х Ж М П Х Ж В Н Ш Х З П Х Е Д Ч

Х И П Х Ж Ш У Ш Е Г У Л Ж Н

Р З В Б Л Е М Ш В Л Ч Ж Н Д

Щ И Е Н П Р З Е С Ж Ш Е

П Н Ш Ч Е З Ж Ш Н В Н

З Е В У Ж З Е А Н У М Б Е З Ш

С П Н Б Е З В У Н А Е А Х В

А Ж Г Г Е З Е Н Н Р Л П С Е Ш