

CCPSG Summer Math Packet

Mrs. Z

8th Grade

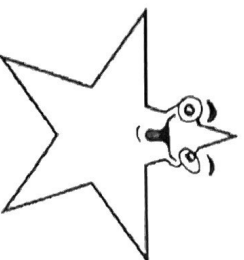


Due at the beginning of the school year.

Have a great summer!

Place Value Chart

2	Hundred Billions
1	Ten Billions
0	Billions
,	
9	Hundred Millions
8	Ten Millions
7	Millions
,	
6	Hundred Thousands
5	Ten Thousands
4	Thousands
,	
3	Hundreds
2	Tens
1	Ones
.	
2	Tenths
3	Hundredths
4	Thousandths
5	Ten Thousandths
6	Hundred Thousandths



This Chart shows the place value of the number 210,987,654,321.23456
This is how you say it.

Two hundred ten billion, nine hundred eighty seven million, six hundred
fifty four thousand, three hundred twenty one, and twenty three thousand
four hundred fifty six hundred thousandths.



Score : _____

Date : _____

Write the Place and Value of Each Number.

1) 7,397.427 What place is the selected digit in? ones
 What is the value of the selected digit? 7

2) 2,186.995 What place is the selected digit in? tenth
 What is the value of the selected digit? .9

3) 2,759.822_^ What place is the selected digit in? _____
What is the value of the selected digit? _____

4) 3,324.689 What place is the selected digit in? _____
What is the value of the selected digit? _____

5) 1,186.961 What place is the selected digit in? _____
What is the value of the selected digit? _____

3) 4,416.357_^ What place is the selected digit in? _____
What is the value of the selected digit? _____

[illegible]

3) 7,366.386 What place is the selected digit in? _____
 What is the value of the selected digit? _____

3) 6,647.741 What place is the selected digit in? _____
What is the value of the selected digit? _____

c) $\underset{\wedge}{7},377.922$ What place is the selected digit in? _____
What is the value of the selected digit? _____



Name : _____

Score : _____

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Multiplication Times Table (1 - 10)

X	1	2	3	4	5	6	7	8	9	10
1				4					9	10
2	2	4		8			14			
3		6	9				21		27	
4			12			24		32		40
5					25			40	45	
6			18			36				60
7	7			28		42		56		70
8	8	16								80
9						54	63	72		90
10					50	60		80		

* Complete the multiplication chart



Name : _____

Score : _____

Teacher : _____

Date : _____

~~*No Calculators. You must show your work!~~

$$\begin{array}{r} 715 \\ + 832 \\ \hline \end{array}$$

$$\begin{array}{r} 798 \\ + 829 \\ \hline \end{array}$$

$$\begin{array}{r} 954 \\ + 656 \\ \hline \end{array}$$

$$\begin{array}{r} 648 \\ + 252 \\ \hline \end{array}$$

$$\begin{array}{r} 113 \\ + 192 \\ \hline \end{array}$$

$$\begin{array}{r} 146 \\ + 141 \\ \hline \end{array}$$

$$\begin{array}{r} 732 \\ - 151 \\ \hline \end{array}$$

$$\begin{array}{r} 737 \\ - 549 \\ \hline \end{array}$$

$$\begin{array}{r} 556 \\ - 508 \\ \hline \end{array}$$

$$\begin{array}{r} 902 \\ - 536 \\ \hline \end{array}$$

$$\begin{array}{r} 442 \\ - 107 \\ \hline \end{array}$$

$$\begin{array}{r} 883 \\ - 684 \\ \hline \end{array}$$

$$\begin{array}{r} 818 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 713 \\ \times 53 \\ \hline \end{array}$$

$$\begin{array}{r} 552 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} 791 \\ \times 93 \\ \hline \end{array}$$

$$\begin{array}{r} 891 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 457 \\ \times 44 \\ \hline \end{array}$$

$$2 \overline{)315}$$

$$7 \overline{)856}$$

$$2 \overline{)144}$$

$$7 \overline{)693}$$

$$8 \overline{)474}$$

$$8 \overline{)584}$$



Name : _____

Score : _____

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List All of the Factors for each number.

1) 34 2×17 ,

2) 21 _____

3) 35 _____

4) 33 _____

5) 48 _____

6) 46 _____

7) 77 _____

8) 50 2×25 , 5×10

9) 55 _____

10) 25 _____

PEMDAS Rules

Evaluate the problem in the following order:

- 1) P - Parentheses ()
- 2) E - Exponents (Powers and Square Roots) \times^3
- 3) MD - Multiplication and Division (Left to Right)
- 4) AS - Addition and Subtraction (Left to Right)

You can remember the order by saying :

Please Excuse My Dear Aunt Sally

a	x	u	i	d	u
r	p	l	v	d	b
e	o	t	i	i	t
n	n	i	s	t	r
t	e	p	i	i	a
h	n	l	o	o	c
e	t	i	n	n	t
s	s	c			i
e		a			o
s		t			n
		i			
		o			
		n			



Name : _____ Score : _____

Teacher : _____ Date : _____

Order of Operations

1) $(9 + 5)^2 + (18 \div 2)$

6) $(34 - 2) \div 8 + 6^2$

2) $2 \times (14 + 4) - 5^2$

7) $(2 \times 5 + 8^2) + 2$

3) $(3 \times 10 - 6^2) + 6$

8) $(9 + 2)^2 + (16 \div 8)$

4) $3 \times (14 - 4) - 4^2$

9) $(30 - 2) \div 4 + 6^2$

5) $(85 - 5^2) \div (5 - 2)$

10) $(73 - 5^2) \div (-2 + 5)$



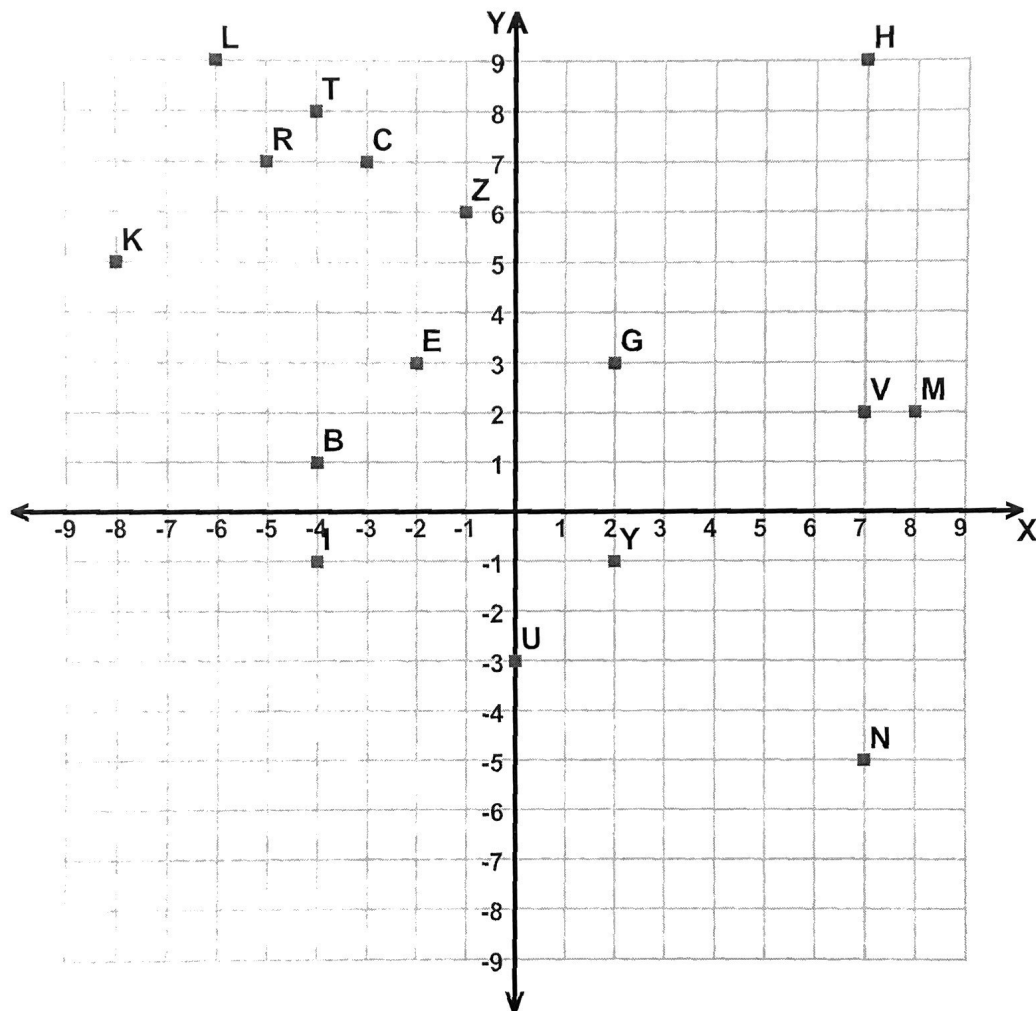
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Four Quadrant Ordered Pairs



Tell what point is located at each ordered pair.

- | | | | |
|---------------------|---------------------|---------------------|---------------------|
| 1) $(+2, +3)$ _____ | 3) $(+7, -5)$ _____ | 5) $(-2, +3)$ _____ | 7) $(-4, +8)$ _____ |
| 2) $(-5, +7)$ _____ | 4) $(+8, +2)$ _____ | 6) $(-4, +1)$ _____ | 8) $(+2, -1)$ _____ |

Write the ordered pair for each given point.

- | | | | |
|-------------|-------------|-------------|-------------|
| 9) K _____ | 11) H _____ | 13) C _____ | 15) I _____ |
| 10) Z _____ | 12) V _____ | 14) L _____ | 16) U _____ |

Plot the following points on the coordinate grid.

- | | | | |
|------------------|------------------|------------------|------------------|
| 17) Q $(-3, -9)$ | 19) S $(+1, +7)$ | 21) O $(+8, +4)$ | 23) J $(+9, -1)$ |
| 18) D $(+1, -4)$ | 20) X $(+3, -8)$ | 22) F $(+0, +1)$ | 24) P $(+4, -8)$ |





Determine the amount of money shown.

Answers

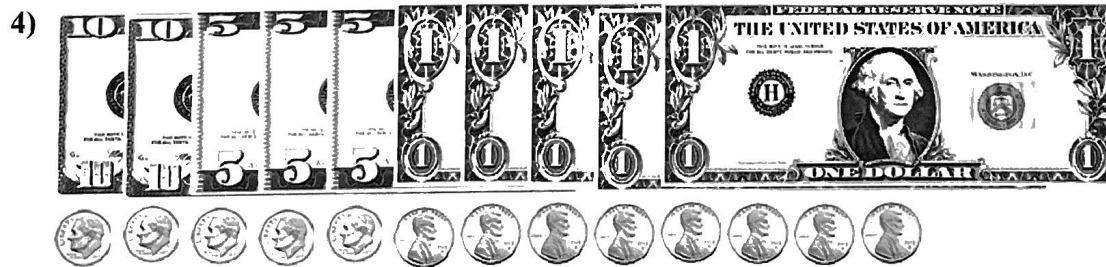
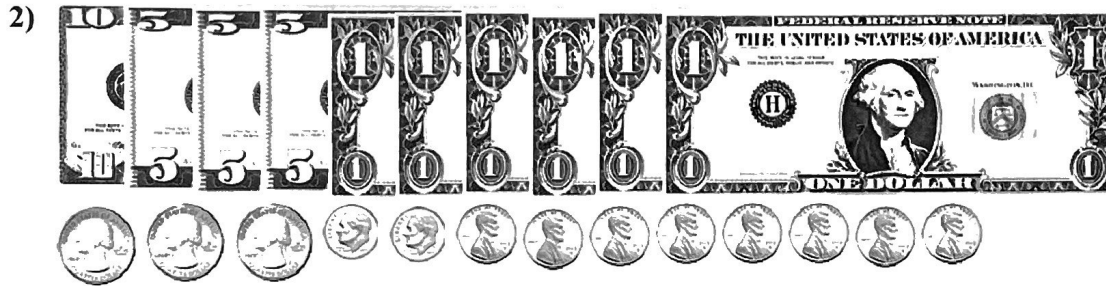
1. _____

2. _____

3. _____

4. _____

5. _____



Name : _____

Score : _____

Teacher : _____

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Word Problems

**Choose 5 problems to complete!*

- 1) Sandy loves eating fruits. Sandy paid \$5.68 for bananas, and \$6.75 for peaches with a \$20 bill. How much change did Sandy receive? _____
- 2) Dan went to the mall on Saturday to buy clothes. He paid \$8.11 on shorts and \$14.24 on a jacket with two \$20 bills. How much money did Dan get in change? _____
- 3) Tom joined his school's band. He bought a violin for \$89.19, and a song book which was \$8.47 with a \$100 bill. How much change was Tom given? _____
- 4) Alyssa purchased a Pokemon game for \$9.24, and a football game for \$9.33 with a \$20 bill. How much change did Alyssa get? _____
- 5) Sara loves trading cards. She bought 3 packs of football cards for \$3.61 each, and a deck of Pokemon cards for \$13.20 with two \$20 bills. How much change did Sara get? _____
- 6) Jessica got fast food for lunch. Jessica paid \$3.58 on a shake and \$2.68 on a salad with a \$10 bill. What was the change from the purchase? _____
- 7) Benny paid \$14.86 on a gerbil toy, and a cage cost him \$10.48 with two \$20 bills. How much change did Benny receive? _____
- 8) For his car, Dan paid \$81.45 on speakers and \$86.45 on new tires with two \$100 bills. How much did Dan get in change? _____
- 9) On Sunday, Alyssa paid \$9.64 each on two tickets to a movie theater. She also borrowed a movie for \$4.87. Alyssa paid with two \$20 bills. How much change did Alyssa receive? _____
- 10) Alyssa bought some toys. She bought toy cars for \$8.84, and paid \$5.39 on a skateboard with a \$20 bill. How much change from the purchase? _____

