

5th Grade Summer Math Practice

Name:

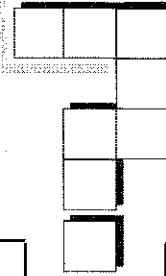
- Return this practice packet to your math teacher on first week of school.
- Make sure to show all your work. If you use a separate sheet of paper attach your work paper to this packet.

When entering fifth grade this is what is expected that your child should already know..

- 1) Read and write numbers to 1,000,000.
- 2) Know place value to 1,000,000. EX. 25,068 is 2 ten thousand, 5 thousand, 0 hundreds, 6 tens and 8 ones.
- 3) Round Whole numbers to a given place value up to thousands place.
- 4) List the first twelve multiples of a given one-digit whole number.
- 5) Know some numbers are called prime numbers. Some prime numbers are 2, 3, 5, 7 and 11; have exactly two factors one and itself.
- 6) Add, subtract and multiply whole numbers fluently.
- 7) Divide numbers up to four-digits by one-digit numbers and by 10.
- 8) Use the relationship between multiplication and division to check results and to find the value of the unknowns in equations such as $x \div 10 = 25$, $10 \times 25 = 250$ so $x = 250$; $125 \div z = 25$, $125 \div 25 = 5$ so $z = 5$.
- 9) Locate the decimals in tenths and hundredths on a number line.
- 10) Know the decimal place value up to thousandths.
- 11) Read, write, interpret, and compare decimals up to two decimal places (hundredths).
- 12) Convert decimals in tenths and hundredths to fraction and decimal forms.
- 13) Write improper fractions as mixed numbers and mixed numbers as improper fractions.
- 14) Compare and order up to three fractions with denominators 2, 4, and 8; and 3, 6, and 12.
- 15) Add and subtract fractions and mixed numbers with common denominators.
- 16) Add and subtract decimals up to 2 decimal places.
- 17) Measure area and perimeter for compound shapes (complex figures).
- 18) Calculate conversions from one unit to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds.
- 19) Identify basic geometric shapes including isosceles, equilateral and right triangles.
- 20) Identify and count faces, edges, and vertices of basic three-dimensional solids including cubes, rectangular prisms and pyramids.
- 21) Construct tables and bar graphs from given data.

Name _____

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NUMBER CONCEPTS**Cross-Number Puzzle**Rewriting words as
numbers; place value

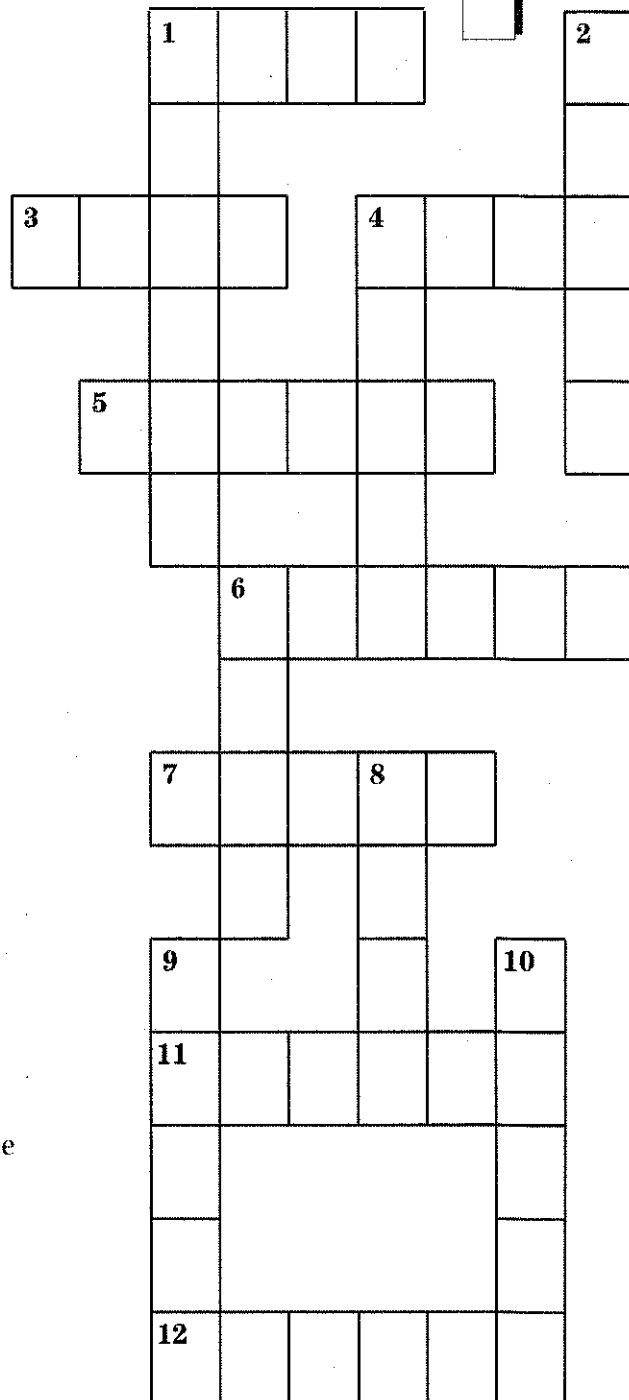
Change each number below to its numerical form and write your answer in the appropriate across or down position.

ACROSS

1. Four thousand seven hundred three
3. Two thousand four hundred thirty-five
4. Five thousand nine
5. One hundred sixty-four thousand five hundred ninety-three
6. Six hundred four thousand five hundred ninety
7. Eighty-five thousand three hundred ninety-six
11. Five hundred forty-six thousand three hundred seventy-one
12. Three hundred forty-eight thousand seven

DOWN

1. Four hundred ninety-three thousand six hundred sixty-six
2. Fifty thousand nine hundred thirty
4. Fifty-six thousand nine hundred thirty-four
6. Six thousand four hundred fifty-one
8. Nine thousand four hundred forty-three
9. Twenty-five thousand seven hundred ninety-three
10. Eighty-one thousand two hundred forty-seven



Name _____

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SUBTRACTION

4 digits

What's The Difference? Number Search



Subtract each problem carefully. Locate and circle the answer—the difference—in the number search below. The answers are written horizontally and vertically.

$$\begin{array}{r} 1. \quad 7,906 \\ - 4,537 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 8,800 \\ - 4,675 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 14,768 \\ - 9,794 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 3,908 \\ - 349 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 6,902 \\ - 4,768 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 5,903 \\ - 3,344 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 7,990 \\ - 6,999 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 14,108 \\ - 6,394 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 7,000 \\ - 395 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 5,934 \\ - 4,376 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 7,543 \\ - 5,097 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 9,004 \\ - 8,432 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 4,567 \\ - 3,997 \\ \hline \end{array}$$

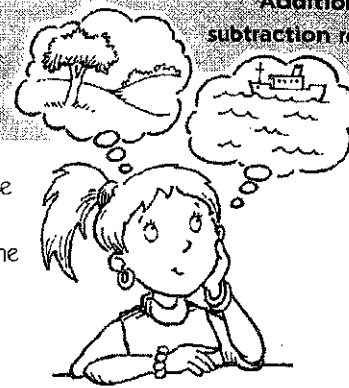
$$\begin{array}{r} 14. \quad 18,942 \\ - 9,932 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 5,826 \\ - 3,455 \\ \hline \end{array}$$

7	6	0	6	4	3	5	7	2	4	7
7	3	3	6	9	5	7	1	5	5	8
1	6	6	0	7	9	0	5	5	3	2
4	1	2	5	4	7	8	2	9	9	1
6	9	9	0	1	0	2	4	4	6	3
3	5	5	9	6	2	3	7	1	5	4

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MIXED PRACTICE**What's the Difference
Between Land and Sea?**Addition and
subtraction review

To figure out this riddle, solve the following problems and find your answers in the code boxes below. Write the letter from each problem in the code box with the matching answer. If the answer appears in more than one code box, fill in each one with the same letter.

E

$$\begin{array}{r} 5,872 \\ - 3,991 \\ \hline \end{array}$$

P

$$\begin{array}{r} 7,340 \\ + 4,663 \\ \hline \end{array}$$

I

$$\begin{array}{r} 9,304 \\ - 2,763 \\ \hline \end{array}$$

A

$$\begin{array}{r} 4,399 \\ + 7,638 \\ \hline \end{array}$$

O

$$\begin{array}{r} 5,493 \\ - 2,488 \\ \hline \end{array}$$

R

$$\begin{array}{r} 3,758 \\ + 9,797 \\ \hline \end{array}$$

N

$$\begin{array}{r} 6,773 \\ - 4,799 \\ \hline \end{array}$$

T

$$\begin{array}{r} 3,276 \\ + 6,723 \\ \hline \end{array}$$

M

$$\begin{array}{r} 4,000 \\ - 2,999 \\ \hline \end{array}$$

D

$$\begin{array}{r} 9,669 \\ + 7,337 \\ \hline \end{array}$$

H

$$\begin{array}{r} 5,803 \\ - 4,799 \\ \hline \end{array}$$

W

$$\begin{array}{r} 4,455 \\ + 6,677 \\ \hline \end{array}$$

L

$$\begin{array}{r} 3,090 \\ - 1,909 \\ \hline \end{array}$$

Y

$$\begin{array}{r} 2,435 \\ + 8,876 \\ \hline \end{array}$$

S

$$\begin{array}{r} 8,429 \\ - 7,777 \\ \hline \end{array}$$

Hint:

There are some extra problems and letters—don't get confused!

9,999	1,004	1,881

1,181	12,037	1,974	17,006

6,541	652

17,006	6,541	13,555	9,999

11,311

12,037	1,974	17,006

9,999	1,004	1,881

652	1,881	12,037

6,541	652

9,999	6,541	17,006	1,881

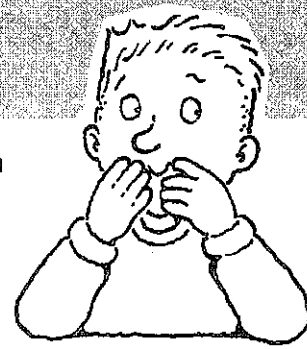
11,311

Name _____

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MULTIPLICATION

Facts review

59 Errors

The multiplication grid below contains 59 errors. Check all of the answers. When you find a mistake, correct it and shade in that box. When you've finished shading the boxes with errors, the shaded grid will spell out the answer to the following riddle:

**What is too much for one, enough for two,
and nothing at all for three?**

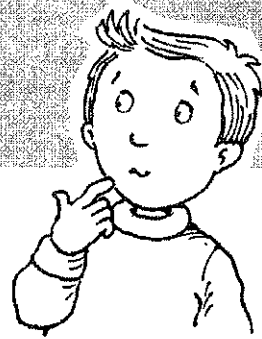
X	9	6	3	1	0	8	7	2	5	4	3	8	4	9	0	6	7	5
7	63	42	21	7	0	56	42	21	30	29	22	65	28	63	0	42	49	35
3	27	18	9	3	0	24	28	6	15	7	9	21	12	27	0	18	21	15
1	9	6	3	2	1	9	0	2	5	5	4	9	5	10	1	6	7	5
8	72	48	24	9	0	64	65	16	40	28	21	64	28	72	0	48	56	40
6	45	30	12	7	6	48	49	10	36	18	18	42	18	45	0	30	49	36
4	27	24	12	5	0	32	28	8	20	16	12	32	12	36	0	24	21	20
9	72	45	36	10	9	81	63	18	45	36	27	72	45	72	9	54	81	45
2	18	12	5	2	0	16	14	4	10	8	6	16	8	18	0	12	21	10
5	54	36	16	5	0	40	35	10	25	20	15	40	20	45	0	30	30	25

Name _____

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MULTIPLICATIONFactors and
products

What a Mix-Up



Here are four mixed-up multiplication charts. Find the missing **factors** and **products** to complete these charts correctly.

X	5	8	2	6
3				
9		72		
4				
7				

X		4		
7			42	
		36		
2			12	
	40			24

Hint:

In the charts with missing factors, you'll notice some of the products lined up in rows or columns. Use your knowledge of common factors to help you see how these products are related.

X				5
		24	4	
	18			10
			8	
		18		

X				
		14		
	10			8
			18	
	50			

Name _____

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MULTIPLICATION

Solve the Riddle

1 digit x
3 or 4 digits

Do you know what Mary had when she went out to dinner?

To figure out this riddle, solve the following problems and find your answers in the code boxes below. Write the letter from each problem in the code box with the matching answer. If the answer appears in more than one code box, fill in each one with the same letter.

$$\begin{array}{r} \mathbf{K} \quad 246 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{R} \quad 4,035 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{E} \quad 319 \\ \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{N} \quad 8,007 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{D} \quad 7,021 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{L} \quad 9,306 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{T} \quad 999 \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{H} \quad 6,210 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{I} \quad 5,115 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{B} \quad 8,020 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{P} \quad 583 \\ \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{A} \quad 967 \\ \times \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{M} \quad 532 \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{Y} \quad 6,039 \\ \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{W} \quad 826 \\ \times \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{O} \quad 3,244 \\ \times \quad 3 \\ \hline \end{array}$$

5,247	2,871	9,732	5,247	65,142	2,871	738	40,035	9,732	4,130	4,256	2,901	24,210	54,351
-------	-------	-------	-------	--------	-------	-----	--------	-------	-------	-------	-------	--------	--------

12,420	2,901	28,084	2,901	65,142	35,805	7,992	7,992	65,142	2,871	65,142	2,901	4,256	48,120
--------	-------	--------	-------	--------	--------	-------	-------	--------	-------	--------	-------	-------	--------

Name _____ Date _____

MULTIPLICATION

2 digits x 2 digits

Secret Code Time



Why did Godzilla eat Tokyo instead of Rome?

To figure out this riddle, solve the following problems and find your answers in the code boxes below. Write the letter from each problem in the code box with the matching answer. If the answer appears in more than one code box, fill in each one with the same letter.

M

$$\begin{array}{r} 67 \\ \times 38 \\ \hline \end{array}$$

U

$$\begin{array}{r} 48 \\ \times 25 \\ \hline \end{array}$$

N

$$\begin{array}{r} 94 \\ \times 50 \\ \hline \end{array}$$

L

$$\begin{array}{r} 27 \\ \times 62 \\ \hline \end{array}$$

W

$$\begin{array}{r} 53 \\ \times 35 \\ \hline \end{array}$$

T

$$\begin{array}{r} 79 \\ \times 29 \\ \hline \end{array}$$

D

$$\begin{array}{r} 58 \\ \times 34 \\ \hline \end{array}$$

O

$$\begin{array}{r} 41 \\ \times 79 \\ \hline \end{array}$$

I

$$\begin{array}{r} 55 \\ \times 84 \\ \hline \end{array}$$

J

$$\begin{array}{r} 47 \\ \times 24 \\ \hline \end{array}$$

E

$$\begin{array}{r} 62 \\ \times 37 \\ \hline \end{array}$$

F

$$\begin{array}{r} 90 \\ \times 30 \\ \hline \end{array}$$

R

$$\begin{array}{r} 24 \\ \times 25 \\ \hline \end{array}$$

S

$$\begin{array}{r} 92 \\ \times 38 \\ \hline \end{array}$$

A

$$\begin{array}{r} 47 \\ \times 96 \\ \hline \end{array}$$

H

$$\begin{array}{r} 52 \\ \times 87 \\ \hline \end{array}$$

4,524 2,294

1,128 1,200 3,496 2,291

1,855 4,512 3,496

4,700 3,239 2,291

4,620 4,700

2,291 4,524 2,294

2,546 3,239 3,239 1,972

2,700 3,239 600

4,620 2,291 4,512 1,674 4,620 4,512 4,700

2,700 3,239 3,239 1,972

Name _____

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MULTIPLICATION

2 digits x 3 digits

Monster Mystery

Solve the ten multiplication problems below. Write the answers in the across and down spaces in the cross-number puzzle. The numbers in the shaded boxes show where the letters should go in the code at the bottom to solve this riddle:



What did the hungry monster eat after the dentist pulled its tooth?

ACROSS

$$\begin{array}{r} 1. \quad 384 \\ \times 64 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 908 \\ \times 62 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 787 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 473 \\ \times 64 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 669 \\ \times 66 \\ \hline \end{array}$$

DOWN

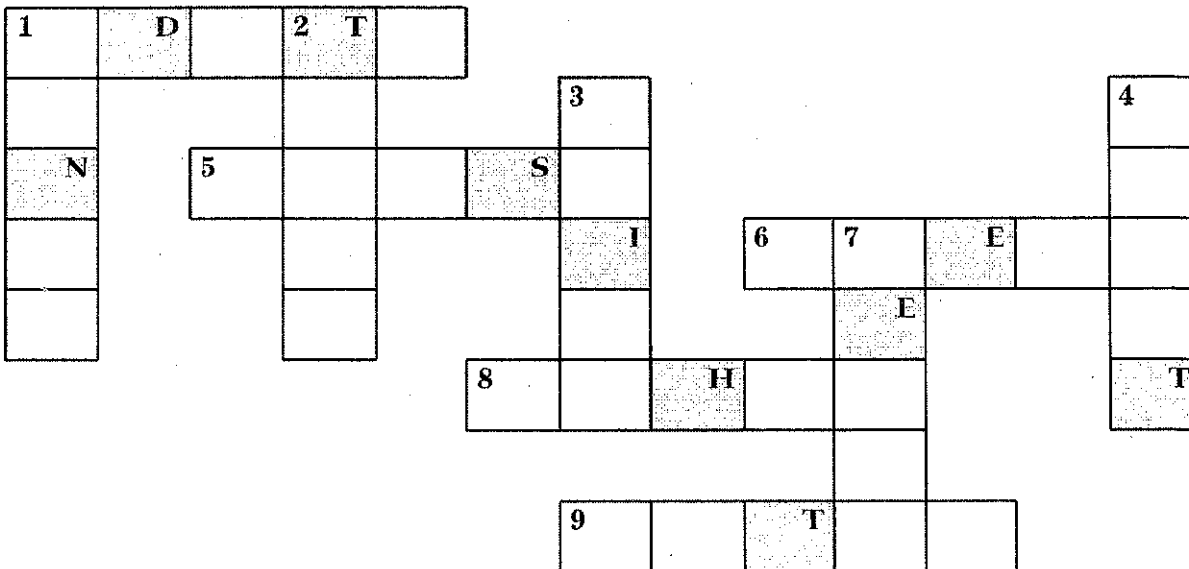
$$\begin{array}{r} 1. \quad 586 \\ \times 37 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 824 \\ \times 93 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 960 \\ \times 28 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 168 \\ \times 75 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 339 \\ \times 45 \\ \hline \end{array}$$



1	2	3
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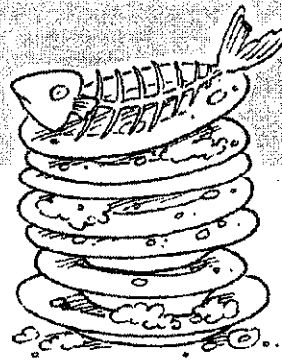
4	5	6	7	8	9	0
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Name _____

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DIVISION

Remainders

1-digit divisors/
3-digit quotient

Solve the division problems below. Each answer has a remainder.
Write the remainder **in words** in the puzzle below. The clue above the problem tells you where the remainder should go.

1 ACROSS

$$9 \overline{) 708}$$

1 DOWN

$$8 \overline{) 743}$$

2 ACROSS

$$7 \overline{) 341}$$

2 DOWN

$$5 \overline{) 249}$$

3 ACROSS

$$8 \overline{) 555}$$

3 DOWN

$$5 \overline{) 452}$$

4 DOWN

$$9 \overline{) 611}$$

5 ACROSS

$$8 \overline{) 713}$$

6 ACROSS

$$5 \overline{) 192}$$

7 ACROSS

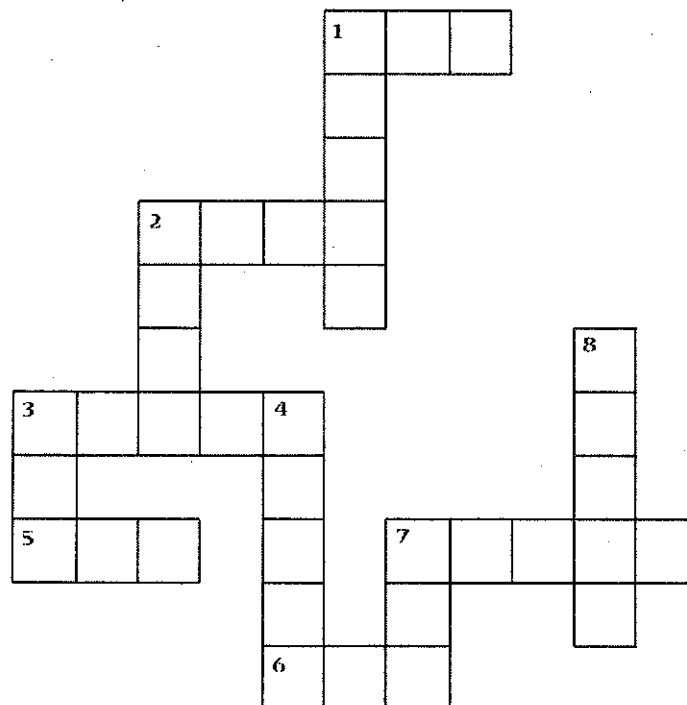
$$7 \overline{) 675}$$

7 DOWN

$$9 \overline{) 587}$$

8 DOWN

$$8 \overline{) 711}$$



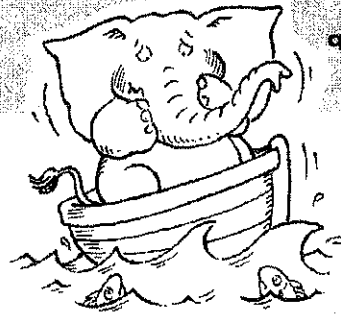
Name _____

Date _____

DIVISION

1-digit divisors/
4-digit
quotient

Match It #2



Use division to solve the problems below, then locate each correct answer in the column on the right. Use a ruler or a straightedge to draw a line from the question to the answer (dot to dot). Your line will pass through a number and a letter. The number tells you where to write your letter in the code boxes to answer the riddle below.

- | | | |
|--------------------|---|-----|
| 1. $5,247 \div 9$ | | 949 |
| 2. $1,230 \div 5$ | | 560 |
| 3. $2,712 \div 8$ | 3 | 226 |
| 4. $2,847 \div 3$ | 8 | 415 |
| 5. $2,658 \div 6$ | | 339 |
| 6. $818 \div 2$ | | 443 |
| 7. $3,920 \div 7$ | | 764 |
| 8. $1,200 \div 4$ | | 793 |
| 9. $6,112 \div 8$ | | 583 |
| 10. $1,356 \div 6$ | | 300 |
| 11. $7,137 \div 9$ | | 409 |
| 12. $2,075 \div 5$ | | 246 |

What do you give a seasick elephant?

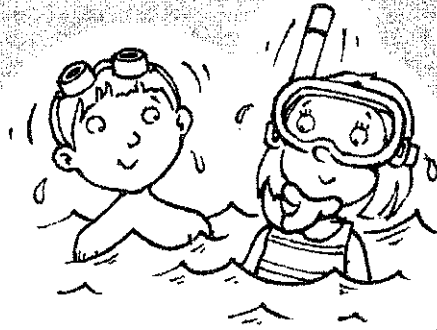
1	2	3	4	5	6
---	---	---	---	---	---

7	8
---	---

9	10	11	12
---	----	----	----

Name _____

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MIXED PRACTICE**Links**Addition, subtraction,
multiplication, and
division review

Solve each problem by working from left to right.
When you finish a problem, locate the answer in a
box below, then write the letter above the answer. If
the answer appears in more than one box, fill in each
one with the same letter.

Take **48** → Multiply by **8** → Subtract **64** → Divide **4** = _____ = **N**

Take **408** → Add **72** → Divide by **5** → Subtract **19** = _____ = **A**

Take **937** → Subtract **83** → Divide by **7** → Multiply by **9** = _____ = **D**

Take **396** → Divide by **6** → Add **48** → Subtract **78** = _____ = **S**

Take **407** → Add **49** → Divide by **4** → Subtract **70** = _____ = **L**

Take **596** → Multiply by **9** → Subtract **64** → Divide by **5** = _____ = **B**

Take **486** → Divide by **6** → Add **40** → Multiply by **7** = _____ = **G**

Take **784** → Subtract **229** → Divide by **5** → Add **72** = _____ = **U**

Take **420** → Add **777** → Subtract **42** → Divide by **5** = _____ = **Y**

Take **92** → Multiply by **8** → Subtract **1** → Divide by **7** = _____ = **O**

What strange children live in the ocean?

1,060	183	105	231	36
-------	-----	-----	-----	----

77	80	1,098
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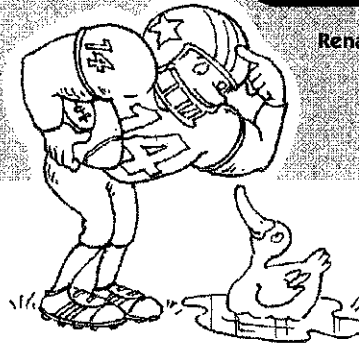
847	183	44	44	36
-----	-----	----	----	----

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FRACTIONS

Equal Values #2

Renaming and
reducing
fractions

What is the difference between a
football player and a duck?

Change the improper fractions in the top boxes to mixed numerals in their simplest form. Then match each answer in the top boxes to an equivalent mixed numeral, expressed in words, in the bottom boxes. Discover the answer to the question above by writing each word from the top set of boxes in the box below with the matching answer. One example has been done for you.

$\frac{5}{3} =$ DUCK	$\frac{14}{10} = 1\frac{4}{10} = 1\frac{2}{5}$ A	$\frac{9}{6} =$ PUDDLE	$\frac{8}{5} =$ BUT
$\frac{13}{8} =$ HUDDLE	$\frac{17}{14} =$ A	$\frac{7}{4} =$ PLAYER	$\frac{17}{12} =$ IN
$\frac{12}{7} =$ IN	$\frac{10}{8} =$ FOOTBALL	$\frac{9}{4} =$ FOUND	$\frac{11}{6} =$ IS
$\frac{9}{7} =$ A	$\frac{5}{2} =$ A	$\frac{12}{9} =$ IS	$\frac{13}{12} =$ FOUND

one and two fifths = <u> A </u>	one and one fourth = _____	one and three fourths = _____	one and one third = _____
one and one twelfth = _____	one and five sevenths = _____	two and one half = _____	one and five eighths = _____
one and three fifths = _____	one and two sevenths = _____	one and two thirds = _____	one and five sixths = _____
two and one fourth = _____	one and five twelfths = _____	one and three fourteenths = _____	one and one half = _____

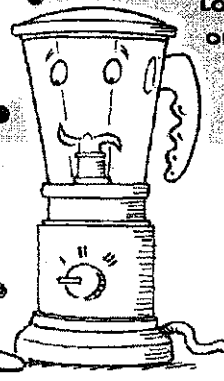
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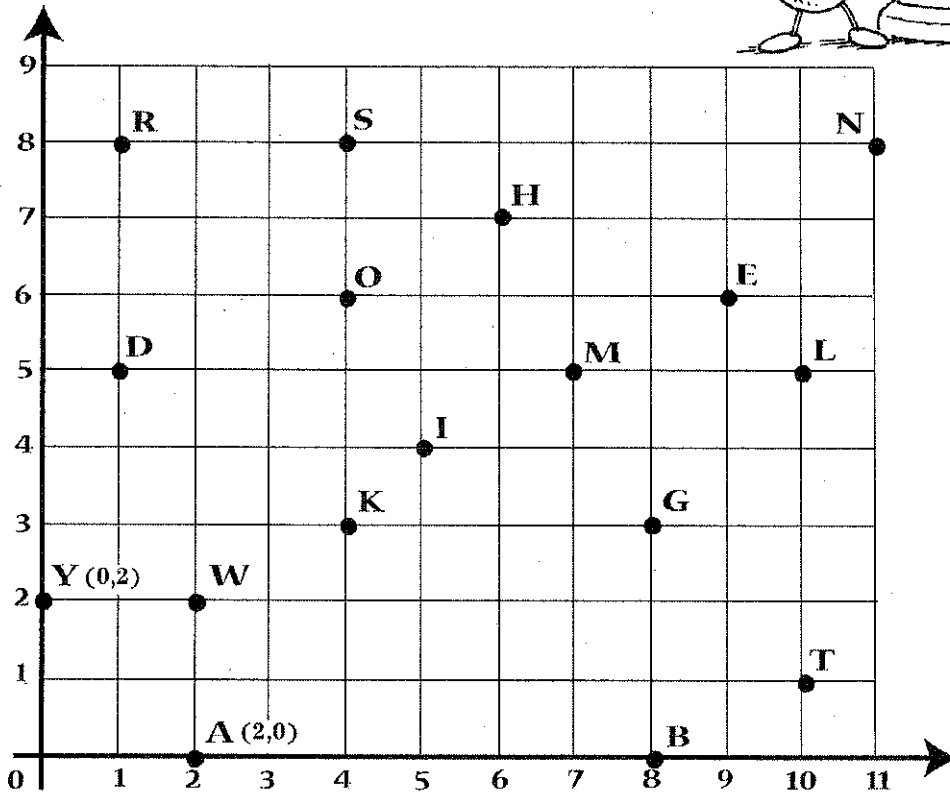
GRAPHING

Hidden Question and Answer #1

Locating
ordered
pairs



Read the ordered pairs (for example, 0,2) listed in the code boxes below. Find the letter of the alphabet that names each point given. Write the correct letter in the box above the ordered pair. Reveal a hidden question and answer.



Question

(2,2)	(6,7)	(2,0)	(10,1)

(1,5)	(5,4)	(1,5)

(10,1)	(6,7)	(9,6)

(9,6)	(8,3)	(8,3)

(4,8)	(2,0)	(0,2)

(10,1)	(4,6)

(10,1)	(6,7)	(9,6)

(8,0)	(10,5)	(9,6)	(11,8)	(1,5)	(9,6)	(1,8)



Answer

(5,4)	(4,3)	(11,8)	(4,6)	(2,2)

(2,2)	(6,7)	(9,6)	(11,8)

(5,4)	(7,5)

(8,0)	(9,6)	(2,0)	(10,1)	(9,6)	(11,8)

Name _____

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TIME

A Timely Puzzle



Converting
hours,
minutes,
and seconds

Write the answer to each problem in the space provided. Locate your answer in the boxes below, then write the word that is next to your answer in that box. Continue answering all the questions until you have decoded the following riddle:

Why did the downhill skier wear just one boot?

1. If you fall asleep at 9:15 P.M. and you wake up at 9:15 A.M., how many minutes did you sleep? = _____ = **That**
2. If it's 6:15 A.M., what will the time be 46 minutes later? = _____ = **The**
3. A diver holds his breath for 186 seconds. How many minutes and seconds is that? = _____ = **The**
4. Mom's commute to work takes 46 minutes and she arrives at work at 8:20 A.M. When did she leave home? = _____ = **One**
5. You leave the house at 8:12 A.M. and arrive at school at 8:31 A.M. How many seconds did it take you to get there? = _____ = **Heard**
6. Sunrise is at 6:13 A.M. and sunset is at 7:16 P.M. How many hours and minutes of sunlight did we have? = _____ = **Snow**
7. How many minutes have elapsed between 9:00 A.M. and 11:12 A.M.? = _____ = **Foot**
8. If your gym, music, art, and math classes are 40 minutes each, what is the total number of hours and minutes? = _____ = **Trail**
9. Two race car drivers finished a race in 46 minutes 30 seconds and 43 minutes 29 seconds, respectively. How much faster was the winner? = _____ = **He**
10. If the fire drill interrupted class for 15 minutes, how many seconds of class did you miss? = _____ = **Along**
11. If it's 3:30 P.M., how much time has passed since 1:25 P.M.? = _____ = **Deep**
12. It takes 12 minutes and 36 seconds to walk around the city block. How many seconds did it take? = _____ = **Was**

3 minutes, 1 second	1,140 seconds	720 minutes	7:01 A.M.
13 hours, 3 minutes	900 seconds	3 minutes, 6 seconds	2 hours, 40 minutes
756 seconds	7:34 A.M.	132 minutes	2 hours, 5 minutes