

Operations Practice

How much did you sell?

TUE : Cups sold: 19

$$\begin{array}{r} 1 \\ 16 \overline{)19} \\ \underline{-16} \\ R:3 \end{array} \qquad \begin{array}{r} 0 \\ 4 \overline{)3} \\ \underline{-0} \\ R:3 \end{array}$$

1 Gal 0 Qt 3 C

WED : Cups sold: 50

___ Gal ___ Qt ___ C

THU : Cups sold: 44

___ Gal ___ Qt ___ C

FRI : Cups sold: 170

SAT : Cups sold: 134

___ Gal ___ Qt ___ C

Conversion Box

Gal = Gallon
Qt = Quarts
C = Cups

1 Gal = 16 C
1 Qt = 4 C



Table of Contents

Number Crunchers: Operations Practice

Riddle Me Math! Multidigit Addition *

Riddle Me Math! Multidigit Subtraction *

Riddle Me Math! Multidigit Addition & Subtraction *

Division Duplication *

Zoey Chase is on the Case! *

Skill Practice: Finding the GCF #1 *

Bull's Eye Multiply *

Division Word Problems *

Lemonade Stand Math *

Skill Practice: Finding the GCF #2 *

Greater Than or Less Than? *

Practice Finding the Variable *

Sudoku Island *

Math-Go-Round: Multiplication

Certificate of Completion
Answer Sheets

** Has an Answer Sheet*

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Riddle Me Math!

Multidigit Addition

Directions:

Solve each math problem. Then find the answer and write the letter in the correct place to solve the riddles.

What can you catch and not throw? A ^C 1 2 3 4 .

$$1. \begin{array}{r} 1 \\ 436 \\ + 735 \\ \hline 1171 \end{array}$$

$$2. \begin{array}{r} 204 \\ + 596 \\ \hline \end{array}$$

$$3. \begin{array}{r} 825 \\ + 481 \\ \hline \end{array}$$

$$4. \begin{array}{r} 163 \\ + 830 \\ \hline \end{array}$$

What kind of coat can only be put on when wet? A 5 6 7 8

9 10 11 12 13 14 15 .

$$5. \begin{array}{r} 673 \\ + 349 \\ \hline \end{array}$$

$$6. \begin{array}{r} 748 \\ + 697 \\ \hline \end{array}$$

$$7. \begin{array}{r} 119 \\ + 250 \\ \hline \end{array}$$

$$8. \begin{array}{r} 485 \\ + 215 \\ \hline \end{array}$$

$$9. \begin{array}{r} 729 \\ + 164 \\ \hline \end{array}$$

$$10. \begin{array}{r} 876 \\ + 533 \\ \hline \end{array}$$

$$11. \begin{array}{r} 903 \\ + 203 \\ \hline \end{array}$$

$$12. \begin{array}{r} 836 \\ + 720 \\ \hline \end{array}$$

$$13. \begin{array}{r} 585 \\ + 499 \\ \hline \end{array}$$

$$14. \begin{array}{r} 958 \\ + 247 \\ \hline \end{array}$$

$$15. \begin{array}{r} 333 \\ + 138 \\ \hline \end{array}$$

A. 369

P. 1106

D. 993

I. 1084

A. 1556

O. 893

T. 471

N. 1205

C. 1022

L. 1306

F. 1409

~~C. 1171~~

O. 800

T. 700

O. 1445

Riddle Me Math!

Multidigit Subtraction

Directions:

Solve each math problem. Then find the answer and write the letter in the correct place to solve the riddles.

What can fill a room but takes up no space?

^L
 $\frac{\quad}{1} \quad \frac{\quad}{2} \quad \frac{\quad}{3} \quad \frac{\quad}{4} \quad \frac{\quad}{5}$

$$\begin{array}{r} 513 \\ 6410 \\ 1. \quad -264 \\ \hline 376 \end{array}$$

$$2. \quad \begin{array}{r} 829 \\ -100 \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} 455 \\ -283 \\ \hline \end{array}$$

$$4. \quad \begin{array}{r} 988 \\ -527 \\ \hline \end{array}$$

$$5. \quad \begin{array}{r} 284 \\ -259 \\ \hline \end{array}$$

What has a foot on each side and one in the middle?

$\frac{\quad}{6} \quad \frac{\quad}{7} \quad \frac{\quad}{8} \quad \frac{\quad}{9} \quad \frac{\quad}{10} \quad \frac{\quad}{11} \quad \frac{\quad}{12} \quad \frac{\quad}{13} \quad \frac{\quad}{14}$

$$6. \quad \begin{array}{r} 722 \\ -346 \\ \hline \end{array}$$

$$7. \quad \begin{array}{r} 826 \\ -465 \\ \hline \end{array}$$

$$8. \quad \begin{array}{r} 563 \\ -372 \\ \hline \end{array}$$

$$9. \quad \begin{array}{r} 278 \\ -134 \\ \hline \end{array}$$

$$10. \quad \begin{array}{r} 854 \\ -523 \\ \hline \end{array}$$

$$11. \quad \begin{array}{r} 692 \\ -483 \\ \hline \end{array}$$

$$12. \quad \begin{array}{r} 909 \\ -738 \\ \hline \end{array}$$

$$13. \quad \begin{array}{r} 654 \\ -421 \\ \hline \end{array}$$

$$14. \quad \begin{array}{r} 846 \\ -284 \\ \hline \end{array}$$

Y. 376

K. 562

T. 209

~~L. 376~~

H. 461

T. 25

I. 729

A. 361

D. 144

I. 171

S. 331

R. 191

C. 233

G. 172

Riddle Me Math!

Multidigit Addition & Subtraction

Directions:

Solve each math problem. Then find the answer and write the letter in the correct place to solve the riddle.

Whoever makes it, tells it not. Whoever takes it, knows it not. Whoever knows it, wants it not. What is it?

C

1 2 3 4 5 6 7 8 9 10 11

12 13 14 15 16

$$\begin{array}{r} 11 \\ 485 \\ +859 \\ \hline 1344 \end{array}$$

$$\begin{array}{r} 647 \\ -326 \\ \hline \end{array}$$

$$\begin{array}{r} 273 \\ +526 \\ \hline \end{array}$$

$$\begin{array}{r} 352 \\ -105 \\ \hline \end{array}$$

$$\begin{array}{r} 525 \\ +372 \\ \hline \end{array}$$

$$\begin{array}{r} 938 \\ -744 \\ \hline \end{array}$$

$$\begin{array}{r} 769 \\ +662 \\ \hline \end{array}$$

$$\begin{array}{r} 436 \\ -277 \\ \hline \end{array}$$

$$\begin{array}{r} 273 \\ +488 \\ \hline \end{array}$$

$$\begin{array}{r} 825 \\ -562 \\ \hline \end{array}$$

$$\begin{array}{r} 348 \\ +743 \\ \hline \end{array}$$

$$\begin{array}{r} 783 \\ -321 \\ \hline \end{array}$$

$$\begin{array}{r} 637 \\ +185 \\ \hline \end{array}$$

$$\begin{array}{r} 709 \\ -437 \\ \hline \end{array}$$

$$\begin{array}{r} 261 \\ +575 \\ \hline \end{array}$$

$$\begin{array}{r} 975 \\ -418 \\ \hline \end{array}$$

E. 836

F. 159

E. 194

M. 462

~~C. 1344~~

E. 761

O. 321

N. 272

T. 1091

Y. 557

N. 247

T. 897

I. 263

U. 799





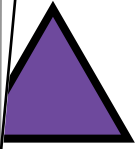

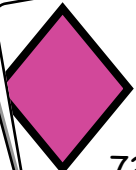



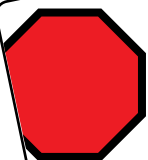
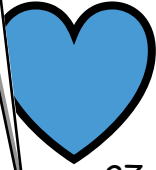
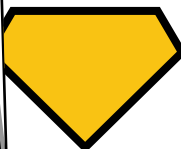
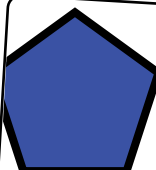
R. 1431

O. 822















Division Duplication

4th Grade

There are 7 pairs of matching cards. Solve the equations then draw a line between symbols with the matching answers in the key below.

 $18 \div 3 =$	 $35 \div 7 =$	 $33 \div 3 =$	 $49 \div 7 =$	 $20 \div 4 =$
 $36 \div 4 =$	 $72 \div 8 =$	 $12 \div 2 =$	 $15 \div 5 =$	 $22 \div 2 =$
 $28 \div 7 =$	 $27 \div 9 =$	 $28 \div 4 =$	 $36 \div 9 =$	

Key

Zoey Chase is on the Case!

Zip Code Caper: West Coast USA

4th Grade

Detective Zoey Chase is searching for Ruby Seeker throughout the Western United States after she escaped from jail in Spokane, Washington. Help Zoey follow Ruby by solving the following multiplication problems and drawing a line to each city and zip code where she stops in the order the problems are given.

1.
$$\begin{array}{r} 991 \\ \times 99 \\ \hline 8,919 \\ + 89,190 \\ \hline 98,109 \end{array}$$
 Seattle

2.
$$\begin{array}{r} 1,417 \\ \times 60 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 4,262 \\ \times 21 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 457 \\ \times 195 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 469 \\ \times 201 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 544 \\ \times 173 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 1,993 \\ \times 42 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 460 \\ \times 183 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 1,217 \\ \times 74 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 4,861 \\ \times 20 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 691 \\ \times 144 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 2,239 \\ \times 44 \\ \hline \end{array}$$





Skill Practice 1

Finding the GCF

✪ The **greatest common factor (GCF)** is the largest whole number that divides evenly into multiple numbers. Look at the two numbers in each problem and find the greatest common factor between them. See the example below for a step by step process to finding the GCF.

Example

$$36 \quad | \quad 48$$

$$\begin{array}{c|c} 2 & 2 \\ \hline 2 & 2 \end{array}$$

$$3 \quad | \quad 2$$

$$\begin{array}{c|c} 3 & 2 \\ \hline & 3 \end{array}$$

$$\frac{2 \times 2 \times 3 = 12}{\text{GCF}}$$

$36 = 18 \times 2$ — 2 is a prime number and divides into 18 evenly 36 times.

$36 = 9 \times 2 \times 2$ — 18 can be divided by 2, leaving 9.

$36 = 3 \times 3 \times 2 \times 2$ — 9 can be divided by 3, leaving 3. Now we have all prime numbers.

$48 = 24 \times 2$

$48 = 12 \times 2 \times 2$

$48 = 6 \times 2 \times 2 \times 2$

$48 = 3 \times 2 \times 2 \times 2 \times 2$

Once you find the prime factors of the second number, see which numbers they have in common. Circle and multiply them to get your GCF. If there are no prime factors in common, then the GCF is 1.

Numbers in common:

2, 2, 3

$$40 \quad | \quad 60$$

$$30 \quad | \quad 75$$

$$84 \quad | \quad 105$$

$$56 \quad | \quad 96$$

GCF

GCF

GCF

GCF

$$18 \quad | \quad 25$$

$$50 \quad | \quad 125$$

$$72 \quad | \quad 108$$

$$56 \quad | \quad 112$$

GCF

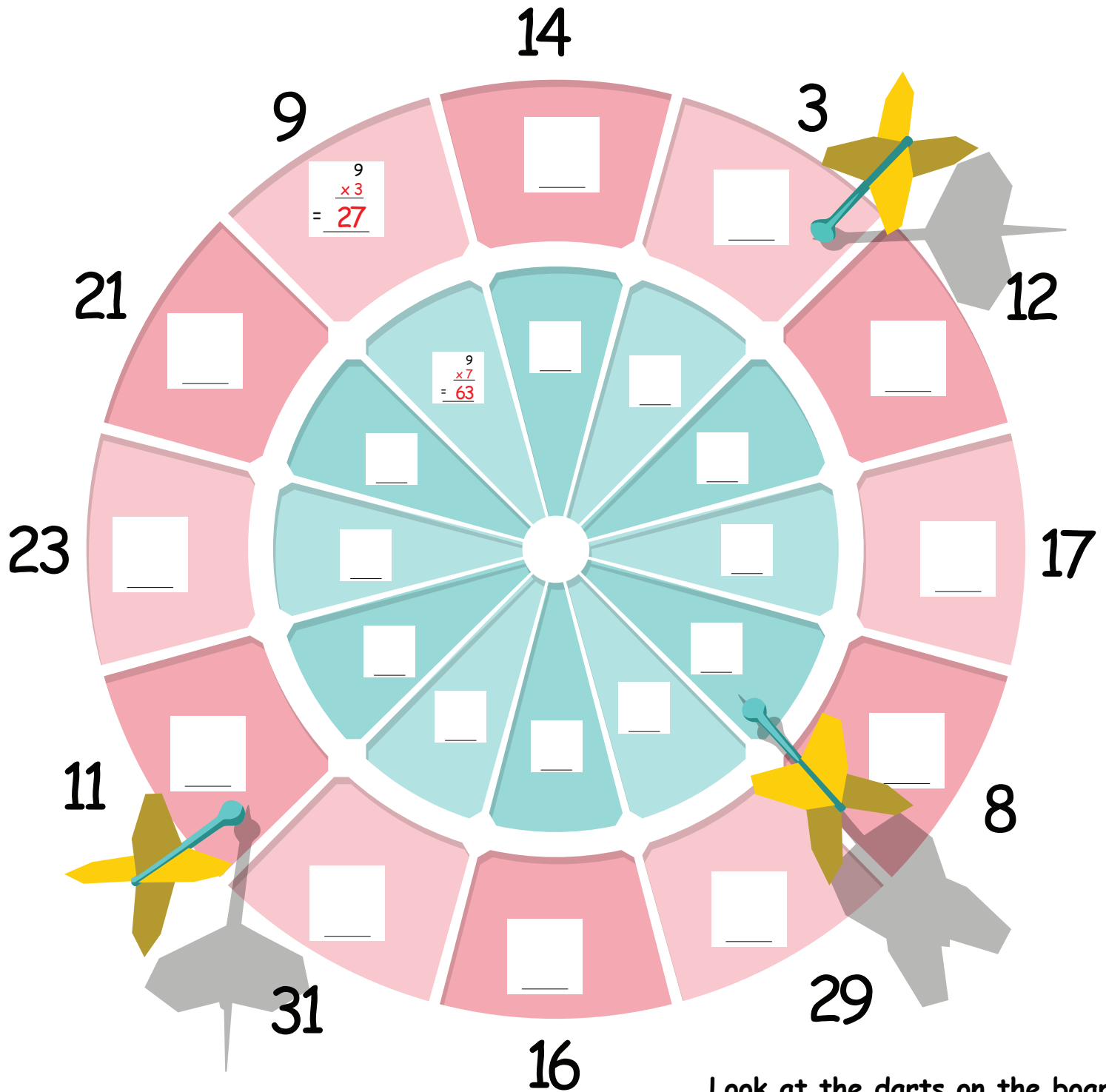
GCF

GCF

GCF

Bull's Eye Multiply

Use multiplication to find the points awarded for hitting each zone. The outer red circle multiplies the number by 3 and the inner blue circle multiplies it by 7.



Look at the darts on the board.
How many points were scored?

_____ + _____ + _____ = _____



DIVISION WORD PROBLEMS

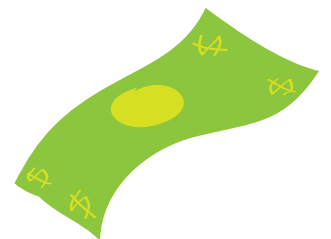
1. Billy receives \$15 every month for allowance. He puts \$7 of his allowance into a piggy bank until his piggy bank has \$119. How many months has he been saving part of his allowance?

2. Miss Amy collected \$6 each from her students for their upcoming field trip. If all of her students went on the field trip she would collect \$192. How many students are in Miss Amy's class?

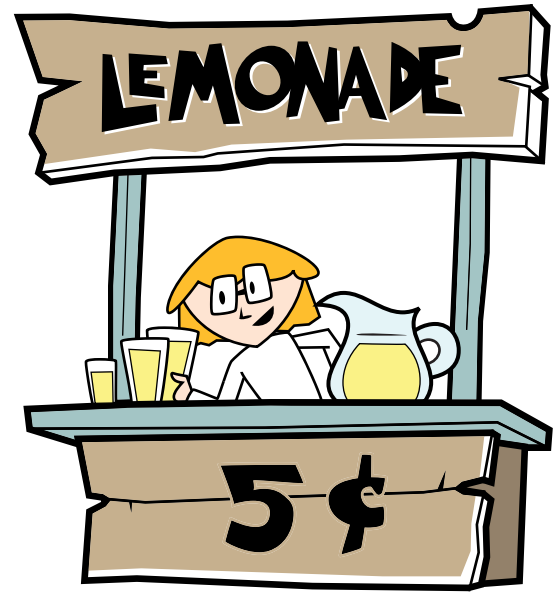
3. Mr. Chong is also planning for his class to go on the same trip. He collects \$6 from each of his students too, but one of his students could only pay \$3 making his total \$219. How many students are in his class?

4. Kari gets \$20 every week for lunch money. She sets aside \$2 every school day. How many weeks did it take for her to save up \$65?

5. Susan is selling raffle tickets for \$4. She collects a total of \$284. How many tickets did she sell?



LEMONADE STAND MATH 5



You and your friends run a lemonade stand everyday during the summer. You are in charge of keeping track of the volume of lemonade sold. Given the number of cups sold each day, use division to express the number of cups sold in gallons, quarts, and cups.

Follow the example below. Refer to the **conversion box** to convert your units correctly. Show and check your work.

Conversion Box

Gal = Gallons

Qt = Quarts

C = Cups

1 Gal = 16 C

1 Qt = 4 C

Mon.

Cups sold: 19

1st: Find the number of gallons using division.

$$1 \text{ G} = 16 \text{ C} \quad \begin{array}{r} 16 \overline{)19} \\ \underline{-16} \\ 3 \end{array} \quad \text{R:3} \quad \underline{1} \text{ Gal}$$

2nd: Convert the remaining 6 cups into quarts. The remainder is the number of cups left over.

$$1 \text{ Q} = 4 \text{ C} \quad \begin{array}{r} 4 \overline{)3} \\ \underline{-0} \\ 3 \end{array} \quad \text{R:3} \quad \underline{0} \text{ Qt} \quad \underline{3} \text{ C}$$

Tues. Cups sold: 23

___ Gal ___ Qt ___ C

Wed. Cups sold: 50

___ Gal ___ Qt ___ C

Thurs. Cups sold: 44

___ Gal ___ Qt ___ C

Fri. Cups sold: 170

___ Gal ___ Qt ___ C

Sat. Cups sold: 134

___ Gal ___ Qt ___ C

Sun. Cups sold: 115

___ Gal ___ Qt ___ C

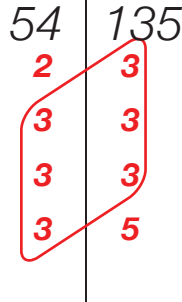


Skill Practice 3

Finding the GCF

✪ The **greatest common factor (GCF)** is the largest whole number that divides evenly into multiple numbers. Look at the two numbers in each problem and find the greatest common factor between them. See the example below for a step by step process to finding the GCF.

Example



$54 = 27 \times 2$ — 2 is a prime number and divides into 54 evenly 27 times.

$54 = 9 \times 3 \times 2$ — 27 can be divided by 3, leaving 9.

$54 = 3 \times 3 \times 3 \times 2$ — 9 can be divided by 3, leaving 3. Now we have all prime numbers.

$135 = 27 \times 5$

$135 = 9 \times 3 \times 5$

$135 = 3 \times 3 \times 3 \times 5$

Once you find the prime factors of the second number, see which numbers they have in common. Circle and multiply them to get your GCF. If there are no prime factors in common, then the GCF is 1.

$$\frac{3 \times 3 \times 3 = 27}{\text{GCF}}$$

Numbers in common:
3, 3, 3

36	54

GCF

60	210

GCF

16	64

GCF

56	84

GCF

48	120

GCF

22	49

GCF

15	75

GCF

24	84

GCF

GREATER THAN OR LESS THAN?

> " GREATER THAN"

< " LESS THAN"

= "EQUAL"

Directions: Solve the equations then write down the symbol that best compares each answer. Then write the answer in word form.

Example:

Ex. (232×32) $>$ (22×150)
7424 3300

Seven thousand, four hundred and twenty-four is greater than three thousand, three hundred.

1. $\begin{array}{r} 539 \\ \times 223 \\ \hline \end{array}$ \square $\begin{array}{r} 133 \\ \times 624 \\ \hline \end{array}$

2. $\begin{array}{r} 439 \\ \times 173 \\ \hline \end{array}$ \square $\begin{array}{r} 244 \\ \times 324 \\ \hline \end{array}$

3. $\begin{array}{r} 453 \\ \times 513 \\ \hline \end{array}$ \square $\begin{array}{r} 1223 \\ \times 154 \\ \hline \end{array}$

4. $\begin{array}{r} 745 \\ \times 16 \\ \hline \end{array}$ \square $\begin{array}{r} 394 \\ \times 85 \\ \hline \end{array}$

Practice Finding The Variable #1

A variable represents the unknown number in the equation. For example, $4 \times t = 12$. The letter "t" represents the number which multiplies by 4 to equal 12. Find the value of each variable in these equations. See the example below.

$6 \times j = 30$

$j = 30 \div 6$

$j = 5$

$8 \times b = 32$

$b =$

$b =$

$9 \times u = 63$

$u =$

$u =$

$11 \times e = 55$

$e =$

$e =$

$22 \times k = 44$

$k =$

$k =$

$d \times 5 = 100$

$d =$

$d =$

$h \times 20 = 400$

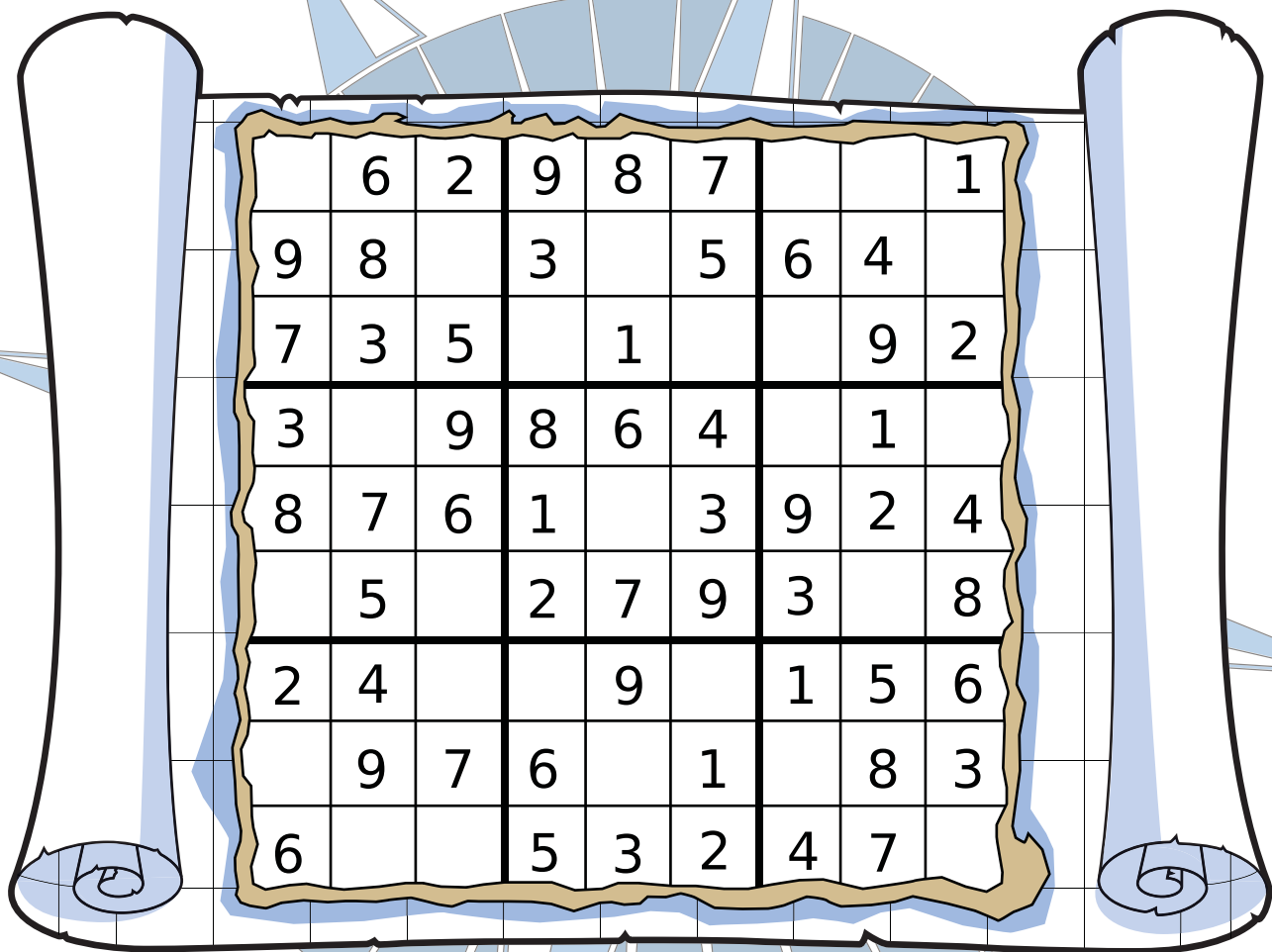
$h =$

$h =$

SUDOKU ISLAND

Solve the Sudoku puzzle by filling in the blank spaces with numbers between 1 and 9. Make sure no numbers appear twice in the same row, column or 3x3 square.

DIFFICULTY: MEDIUM



Math-Go-Round

Multiplication | Difficulty: ★★☆☆

Find a friend and practice your multiplication skills. Find two coins or game pieces and place them on the square labeled **START**. Choose one of the problems to solve and move your game piece clockwise around the board to that problem's answer.

Keep track of the number of corners you go around on each move. For each one, give yourself a point. The player with the most points at the end is the winner.

Keep score with the table below.

Player 1 Player 2

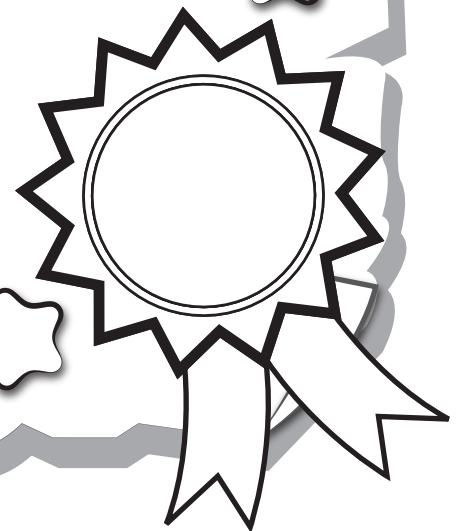
Round 1		
Round 2		
Round 3		
Round 4		
Round 5		
Round 6		
Round 7		
Round 8		

Total _____

START +1 Point	456	2,107	140	169	+1 Point
840	$\begin{array}{r} 25 \\ \times 14 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ \times 13 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ \times 20 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ \times 13 \\ \hline \end{array}$	850
1,820	$\begin{array}{r} 50 \\ \times 17 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ \times 39 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ \times 12 \\ \hline \end{array}$	208
1,376	$\begin{array}{r} 30 \\ \times 23 \\ \hline \end{array}$	$\begin{array}{r} 65 \\ \times 28 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ \times 16 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ \times 59 \\ \hline \end{array}$	216
256	$\begin{array}{r} 24 \\ \times 19 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ \times 32 \\ \hline \end{array}$	$\begin{array}{r} 31 \\ \times 27 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ \times 43 \\ \hline \end{array}$	350
+1 Point	837	1,755	4,602	690	+1 Point

Great job!

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Answer Sheets

Number Crunchers: Operations Practice

Riddle Me Math! Multidigit Addition
Riddle Me Math! Multidigit Subtraction
Riddle Me Math! Multidigit Addition & Subtraction
Division Duplication
Zoey Chase is on the Case!
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Division Word Problems
Lemonade Stand Math
Skill Practice: Finding the GCF #2
Greater Than or Less Than?
Practice Finding the Variable
Sudoku Island

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Answer Sheet



Multidigit Addition

Directions:

Solve each math problem. Then find the answer and write the letter in the correct place to solve the riddles.

What can you catch and not throw? A $\frac{C}{1}$ $\frac{O}{2}$ $\frac{L}{3}$ $\frac{D}{4}$.

$$\begin{array}{r} 1. \quad \begin{array}{r} 436 \\ + 735 \\ \hline 1171 \end{array} \end{array}$$

$$\begin{array}{r} 2. \quad \begin{array}{r} 204 \\ + 596 \\ \hline 800 \end{array} \end{array}$$

$$\begin{array}{r} 3. \quad \begin{array}{r} 825 \\ + 481 \\ \hline 1306 \end{array} \end{array}$$

$$\begin{array}{r} 4. \quad \begin{array}{r} 163 \\ + 830 \\ \hline 993 \end{array} \end{array}$$

What kind of coat can only be put on when wet? A $\frac{C}{5}$ $\frac{O}{6}$ $\frac{A}{7}$ $\frac{T}{8}$
 $\frac{O}{9}$ $\frac{F}{10}$ $\frac{P}{11}$ $\frac{A}{12}$ $\frac{I}{13}$ $\frac{N}{14}$ $\frac{T}{15}$.

$$\begin{array}{r} 5. \quad \begin{array}{r} 673 \\ + 349 \\ \hline 1022 \end{array} \end{array}$$

$$\begin{array}{r} 6. \quad \begin{array}{r} 748 \\ + 697 \\ \hline 1445 \end{array} \end{array}$$

$$\begin{array}{r} 7. \quad \begin{array}{r} 119 \\ + 250 \\ \hline 369 \end{array} \end{array}$$

$$\begin{array}{r} 8. \quad \begin{array}{r} 485 \\ + 215 \\ \hline 700 \end{array} \end{array}$$

$$\begin{array}{r} 9. \quad \begin{array}{r} 729 \\ + 164 \\ \hline 893 \end{array} \end{array}$$

$$\begin{array}{r} 10. \quad \begin{array}{r} 876 \\ + 533 \\ \hline 1409 \end{array} \end{array}$$

$$\begin{array}{r} 11. \quad \begin{array}{r} 903 \\ + 203 \\ \hline 1106 \end{array} \end{array}$$

$$\begin{array}{r} 12. \quad \begin{array}{r} 836 \\ + 720 \\ \hline 1556 \end{array} \end{array}$$

$$\begin{array}{r} 13. \quad \begin{array}{r} 585 \\ + 499 \\ \hline 1084 \end{array} \end{array}$$

$$\begin{array}{r} 14. \quad \begin{array}{r} 958 \\ + 247 \\ \hline 1205 \end{array} \end{array}$$

$$\begin{array}{r} 15. \quad \begin{array}{r} 333 \\ + 138 \\ \hline 471 \end{array} \end{array}$$

A. 369

P. 1106

D. 993

I. 1084

A. 1556

O. 893

T. 471

N. 1205

C. 1022

L. 1306

F. 1409

~~C. 1171~~

O. 800

T. 700

O. 1445

Answer Sheet



Multidigit Subtraction

Directions:

Solve each math problem. Then find the answer and write the letter in the correct place to solve the riddles.

What can fill a room but takes up no space? $\frac{L}{1}$ $\frac{I}{2}$ $\frac{G}{3}$ $\frac{H}{4}$ $\frac{T}{5}$.

$$\begin{array}{r} 513 \\ \cancel{6410} \\ 1. \quad -264 \\ \hline 376 \end{array}$$

$$\begin{array}{r} 829 \\ 2. \quad -100 \\ \hline 729 \end{array}$$

$$\begin{array}{r} 455 \\ 3. \quad -283 \\ \hline 172 \end{array}$$

$$\begin{array}{r} 988 \\ 4. \quad -527 \\ \hline 461 \end{array}$$

$$\begin{array}{r} 284 \\ 5. \quad -259 \\ \hline 25 \end{array}$$

What has a foot on each side and one in the middle?

$\frac{Y}{6}$ $\frac{A}{7}$ $\frac{R}{8}$ $\frac{D}{9}$ $\frac{S}{10}$ $\frac{T}{11}$ $\frac{I}{12}$ $\frac{C}{13}$ $\frac{K}{14}$.

$$\begin{array}{r} 722 \\ 6. \quad -346 \\ \hline 376 \end{array}$$

$$\begin{array}{r} 826 \\ 7. \quad -465 \\ \hline 361 \end{array}$$

$$\begin{array}{r} 563 \\ 8. \quad -372 \\ \hline 191 \end{array}$$

$$\begin{array}{r} 278 \\ 9. \quad -134 \\ \hline 144 \end{array}$$

$$\begin{array}{r} 854 \\ 10. \quad -523 \\ \hline 331 \end{array}$$

$$\begin{array}{r} 692 \\ 11. \quad -483 \\ \hline 209 \end{array}$$

$$\begin{array}{r} 909 \\ 12. \quad -738 \\ \hline 171 \end{array}$$

$$\begin{array}{r} 654 \\ 13. \quad -421 \\ \hline 233 \end{array}$$

$$\begin{array}{r} 846 \\ 14. \quad -284 \\ \hline 562 \end{array}$$

Y. 376

K. 562

T. 209

~~L. 376~~

H. 461

T. 25

I. 729

A. 361

D. 144

I. 171

S. 331

R. 191

C. 233

G. 172

Answer Sheet



Multidigit Addition & Subtraction

Directions:

Solve each math problem. Then find the answer and write the letter in the correct place to solve the riddle.

Whoever makes it, tells it not. Whoever takes it, knows it not. Whoever knows it, wants it not. What is it?

C	O	U	N	T	E	R	F	E	I	T
1	2	3	4	5	6	7	8	9	10	11
M	O	N	E	Y						
12	13	14	15	16						

$$\begin{array}{r} 11 \\ 485 \\ +859 \\ \hline 1344 \end{array}$$

$$\begin{array}{r} 647 \\ -326 \\ \hline 321 \end{array}$$

$$\begin{array}{r} 273 \\ +526 \\ \hline 799 \end{array}$$

$$\begin{array}{r} 352 \\ -105 \\ \hline 247 \end{array}$$

$$\begin{array}{r} 525 \\ +372 \\ \hline 897 \end{array}$$

$$\begin{array}{r} 938 \\ -744 \\ \hline 194 \end{array}$$

$$\begin{array}{r} 769 \\ +662 \\ \hline 1431 \end{array}$$

$$\begin{array}{r} 436 \\ -277 \\ \hline 159 \end{array}$$

$$\begin{array}{r} 273 \\ +488 \\ \hline 761 \end{array}$$

$$\begin{array}{r} 825 \\ -562 \\ \hline 263 \end{array}$$

$$\begin{array}{r} 348 \\ +743 \\ \hline 1091 \end{array}$$

$$\begin{array}{r} 783 \\ -321 \\ \hline 462 \end{array}$$

$$\begin{array}{r} 637 \\ +185 \\ \hline 822 \end{array}$$

$$\begin{array}{r} 709 \\ -437 \\ \hline 272 \end{array}$$

$$\begin{array}{r} 261 \\ +575 \\ \hline 836 \end{array}$$

$$\begin{array}{r} 975 \\ -418 \\ \hline 557 \end{array}$$

E. 836	F. 159	E. 194	M. 462	C. 1344	E. 761
O. 321	N. 272	T. 1091	Y. 557	N. 247	
T. 897	I. 263	U. 799	R. 1431	O. 822	

Answer Sheet

Division Duplication

Answer Sheet

4th
Grade

There are 7 pairs of matching cards. Solve the equations then draw a line between symbols with the matching answers in the key below.

18 ÷ 3 = 6

35 ÷ 7 = 5

33 ÷ 3 = 11

49 ÷ 7 = 7

20 ÷ 4 = 5

36 ÷ 4 = 9

72 ÷ 8 = 9

12 ÷ 2 = 6

15 ÷ 5 = 3

22 ÷ 2 = 11

28 ÷ 7 = 4

27 ÷ 9 = 3

28 ÷ 4 = 7

36 ÷ 9 = 4

Key

Key

Answer Sheet

Zoey Chase is on the Case!

Zip Code Caper: West Coast USA

4th Grade

Answer Sheet

Detective Zoey Chase is searching for Ruby Seeker throughout the Western United States after she escaped from jail in Spokane, Washington. Help Zoey follow Ruby by solving the following multiplication problems and drawing a line to each city and zip code where she stops in the order the problems are given.



1.
$$\begin{array}{r} 991 \\ \times 99 \\ \hline 8,919 \\ + 89,190 \\ \hline 98,109 \end{array}$$
 Seattle

2.
$$\begin{array}{r} 1,417 \\ \times 60 \\ \hline 0 \\ + 85,020 \\ \hline 85,020 \end{array}$$
 Phoenix

3.
$$\begin{array}{r} 4,262 \\ \times 21 \\ \hline 4,262 \\ + 85,240 \\ \hline 89,502 \end{array}$$
 Reno

4.
$$\begin{array}{r} 457 \\ \times 195 \\ \hline 2,285 \\ 41,130 \\ + 45,700 \\ \hline 89,115 \end{array}$$
 Las Vegas

5.
$$\begin{array}{r} 469 \\ \times 201 \\ \hline 469 \\ + 93,800 \\ \hline 94,269 \end{array}$$
 Sacramento

6.
$$\begin{array}{r} 544 \\ \times 173 \\ \hline 1,632 \\ 38,080 \\ + 54,400 \\ \hline 94,112 \end{array}$$
 San Francisco

7.
$$\begin{array}{r} 1,993 \\ \times 42 \\ \hline 3,986 \\ + 79,720 \\ \hline 83,706 \end{array}$$
 Boise

8.
$$\begin{array}{r} 460 \\ \times 183 \\ \hline 1,380 \\ 36,800 \\ + 46,000 \\ \hline 84,180 \end{array}$$
 Salt Lake City

9.
$$\begin{array}{r} 1,217 \\ \times 74 \\ \hline 4,868 \\ + 85,190 \\ \hline 90,058 \end{array}$$
 Los Angeles

10.
$$\begin{array}{r} 4,861 \\ \times 20 \\ \hline 0 \\ + 97,220 \\ \hline 97,220 \end{array}$$
 Portland

11.
$$\begin{array}{r} 691 \\ \times 144 \\ \hline 2,764 \\ 27,640 \\ + 69,100 \\ \hline 99,504 \end{array}$$
 Anchorage

12.
$$\begin{array}{r} 2,239 \\ \times 44 \\ \hline 8,956 \\ + 89,560 \\ \hline 98,516 \end{array}$$
 Olympia

Answer Sheet

Answer Sheet

MATH
FRACTIONS



Skill Practice 1

Finding the GCF

- ☛ The **greatest common factor (GCF)** is the largest whole number that divides evenly into multiple numbers. Look at the two numbers in each problem and find the greatest common factor between them. See the example below for a step by step process to finding the GCF.

Example

<table border="0"> <tr><td>36</td><td> </td><td>48</td></tr> <tr><td>2</td><td> </td><td>2</td></tr> <tr><td>2</td><td> </td><td>2</td></tr> <tr><td>3</td><td> </td><td>2</td></tr> <tr><td>3</td><td> </td><td>2</td></tr> <tr><td>3</td><td> </td><td>3</td></tr> <tr><td colspan="3"><hr/></td></tr> <tr><td colspan="3" style="text-align: center;">$2 \times 2 \times 3 = 12$</td></tr> <tr><td colspan="3" style="text-align: center;">GCF</td></tr> </table>	36		48	2		2	2		2	3		2	3		2	3		3	<hr/>			$2 \times 2 \times 3 = 12$			GCF			<p>$36 = 18 \times 2$ — 2 is a prime number and divides into 18 evenly 36 times.</p> <p>$36 = 9 \times 2 \times 2$ — 18 can be divided by 2, leaving 9.</p> <p>$36 = 3 \times 3 \times 2 \times 2$ — 9 can be divided by 3, leaving 3. Now we have all prime numbers.</p> <p>$48 = 24 \times 2$</p> <p>$48 = 12 \times 2 \times 2$</p> <p>$48 = 6 \times 2 \times 2 \times 2$</p> <p>$48 = 3 \times 2 \times 2 \times 2 \times 2$</p>	<p>Once you find the prime factors of the second number, see which numbers they have in common. Circle and multiply them to get your GCF. If there are no prime factors in common, then the GCF is 1.</p> <p>Numbers in common: 2, 2, 3</p>
36		48																											
2		2																											
2		2																											
3		2																											
3		2																											
3		3																											
<hr/>																													
$2 \times 2 \times 3 = 12$																													
GCF																													

40		60
2		2
2		2
2		3
5		5
<hr/>		
20		
GCF		

30		75
2		3
3		5
5		5
<hr/>		
15		
GCF		

84		105
2		3
2		5
3		7
7		7
<hr/>		
21		
GCF		

56		96
2		2
2		2
2		2
7		2
		2
		3
<hr/>		
8		
GCF		

18		25
2		5
3		5
3		
<hr/>		
1		
GCF		

50		125
2		5
5		5
5		5
<hr/>		
25		
GCF		

72		108
2		2
2		2
2		3
3		3
3		3
<hr/>		
18		
GCF		

56		112
2		2
2		2
2		2
7		2
		7
<hr/>		
28		
GCF		

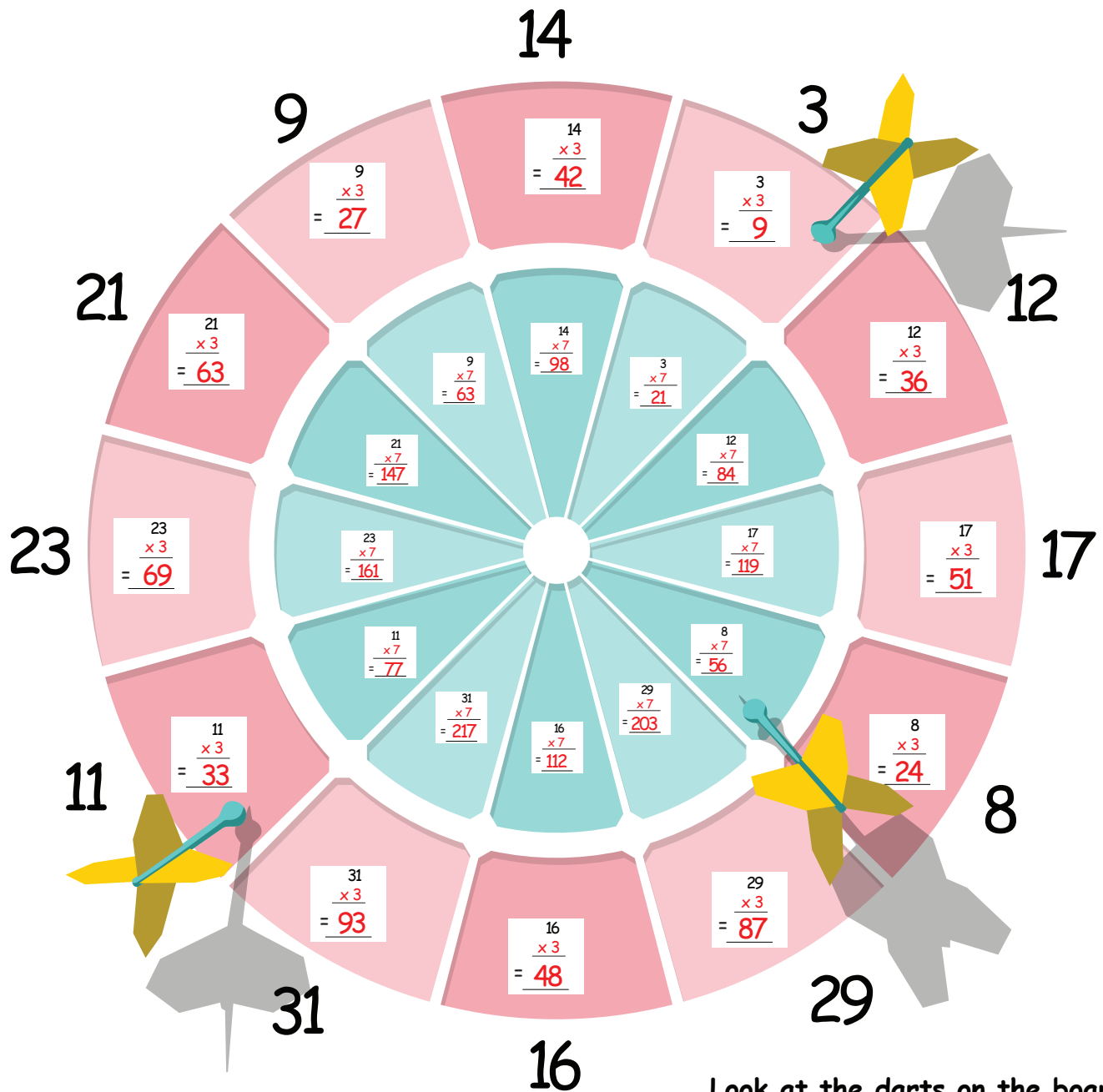


Answer Sheet

Bull's Eye Multiply

Answer Sheet

Use multiplication to find the points awarded for hitting each zone. The outer red circle multiplies the number by 3 and the inner blue circle multiplies it by 7.



Look at the darts on the board.
How many points were scored?

$$9 + 56 + 33 = 98$$

Answer Sheet



DIVISION WORD PROBLEMS



1. Billy receives \$15 every month for allowance. He puts \$7 of his allowance into a piggy bank until his piggy bank has \$119. How many months has he been saving part of his allowance?

$$119 \text{ (amount saved)} \div 7 \text{ (amount left from his allowance)} = 17 \text{ months}$$

It took Billy 17 months to save up \$119 in his piggy bank.

2. Miss Amy collected \$6 each from her students for their upcoming field trip. If all of her students went on the field trip she would collect \$192. How many students are in Miss Amy's class?

$$192 \text{ (total collected money)} \div 6 \text{ (collected per student)} = 32 \text{ students}$$

There are 32 students in Miss Amy's class.

3. Mr. Chong is also planning for his class to go on the same trip. He collects \$6 from each of his students too, but one of his students could only pay \$3 making his total \$219. How many students are in his class?

$$219 \text{ (total collected money)} + 3 \text{ (the missing due from one student)} = 222$$

$$222 \div 6 \text{ (collected per student)} = 37 \text{ students}$$

There are 37 students in Mr. Chong's class.

4. Kari gets \$20 every week for lunch money. She sets aside \$2 every school day. How many weeks did it take for her to save up \$65?

$$\$2 \text{ (allowance saved)} \times 5 \text{ (# school lunch days)} = \$10 \text{ (allowance saved in a week)}$$

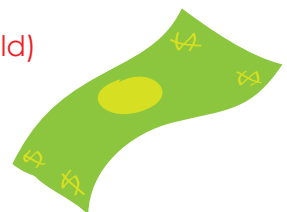
$$\$65 \text{ (total saved)} \div \$10 \text{ (allowance saved in a week)} = 6.5 \text{ weeks round up to 7}$$

It took her 7 weeks to save 65 dollars.

5. Susan is selling raffle tickets for \$4. She collects a total of \$284. How many tickets did she sell?

$$\$284 \text{ (collected total)} \div \$4 \text{ (price per raffle ticket)} = 71 \text{ (tickets sold)}$$

Susan sold 71 tickets.



Answer Sheet

LEMONADE STAND MATH 5 ANSWERS

You and your friends run a lemonade stand everyday during the summer. You are in charge of keeping track of the volume of lemonade sold. Given the number of cups sold each day, use division to express the number of cups sold in gallons, quarts, and cups.

Follow the example below. Refer to the **conversion box** to convert your units correctly. Show and check your work.



Conversion Box

Gal = Gallons
Qt = Quarts
C = Cups

1 Gal = 16 C
1 Qt = 4 C

Mon.
Cups sold: 19

1st: Find the number of gallons using division.

$$1 \text{ G} = 16 \text{ C} \quad 16 \overline{)19} \quad \text{R:3} \quad \underline{1} \text{ Gal}$$

2nd: Convert the remaining 6 cups into quarts. The remainder is the number of cups left over:

$$1 \text{ Q} = 4 \text{ C} \quad 4 \overline{)3} \quad \text{R:3} \quad \underline{0} \text{ Qt} \quad \underline{3} \text{ C}$$

Tues. Cups sold: 23

1 Gal 1 Qt 3 C

Wed. Cups sold: 50

3 Gal 0 Qt 2 C

Thurs. Cups sold: 44

2 Gal 3 Qt 0 C

Fri. Cups sold: 170

10 Gal 2 Qt 2 C

Sat. Cups sold: 134

8 Gal 1 Qt 2 C

Sun. Cups sold: 115

7 Gal 0 Qt 3 C

Answer Sheet

Answer Sheet

MATH
FRACTIONS



Skill Practice 3

Finding the GCF

- ✪ The **greatest common factor (GCF)** is the largest whole number that divides evenly into multiple numbers. Look at the two numbers in each problem and find the greatest common factor between them. See the example below for a step by step process to finding the GCF.

Example

54	135	$54 = 27 \times 2$	2 is a prime number and divides into 54 evenly 27 times.
2	3	$54 = 9 \times 3 \times 2$	27 can be divided by 3, leaving 9.
3	3	$54 = 3 \times 3 \times 3 \times 2$	9 can be divided by 3, leaving 3. Now we have all prime numbers.
3	3	$135 = 27 \times 5$	
3	5	$135 = 9 \times 3 \times 5$	
		$135 = 3 \times 3 \times 3 \times 5$	Once you find the prime factors of the second number, see which numbers they have in common. Circle and multiply them to get your GCF. If there are no prime factors in common, then the GCF is 1.
$\frac{3 \times 3 \times 3 = 27}{\text{GCF}}$		Numbers in common: 3, 3, 3	

36	54
2	2
2	3
3	3
3	3

18
GCF

60	210
2	2
3	3
3	5
5	7

30
GCF

16	64
2	2
2	2
2	2
2	2
	2
	2

16
GCF

56	84
2	2
2	2
2	3
7	7

28
GCF

48	120
2	2
2	2
2	2
2	3
3	5

24
GCF

22	49
2	7
11	7

1
GCF

15	75
3	3
5	5
	5

15
GCF

24	84
2	2
2	2
2	3
3	7

12
GCF



Answer Sheet

GREATER THAN OR LESS THAN?

> " GREATER THAN"

< " LESS THAN"

= "EQUAL"

Directions: Solve the equations then write down the symbol that best compares each answer. Then write the answer in word form.

Example:

Ex. (232×32) $>$ (22×150)
 7424 3300

Seven thousand, four hundred and twenty-four is greater than three thousand, three hundred.

1.
$$\begin{array}{r} 539 \\ \times 223 \\ \hline 120,197 \end{array}$$
 $>$
$$\begin{array}{r} 133 \\ \times 624 \\ \hline 82,992 \end{array}$$

One hundred twenty thousand, one hundred and ninety-seven is greater than eighty-two thousand, nine hundred and ninety-two.

2.
$$\begin{array}{r} 439 \\ \times 173 \\ \hline 75,947 \end{array}$$
 $<$
$$\begin{array}{r} 244 \\ \times 324 \\ \hline 79,056 \end{array}$$

Seventy-five thousand, nine hundred forty-seven is less than seventy-nine thousand, and fifty-six.

3.
$$\begin{array}{r} 453 \\ \times 513 \\ \hline 232,389 \end{array}$$
 $>$
$$\begin{array}{r} 1223 \\ \times 154 \\ \hline 188,342 \end{array}$$

Two hundred, thirty-two thousand, three hundred and eighty-nine is greater than one hundred eighty-eight thousand, three hundred and forty-two.

4.
$$\begin{array}{r} 745 \\ \times 16 \\ \hline 11,920 \end{array}$$
 $<$
$$\begin{array}{r} 394 \\ \times 85 \\ \hline 33,490 \end{array}$$

Eleven thousand, nine hundred and twenty is less than thirty-three thousand, four hundred and ninety.

Answer Sheet

Answer Sheet

Practice Finding The Variable #1

Math
Multiplication

A variable represents the unknown number in the equation. For example, $4 \times t = 12$. The letter "t" represents the number which multiplies by 4 to equal 12. Find the value of each variable in these equations. See the example below.

$6 \times j = 30$

$j = 30 \div 6$

$j = 5$

$8 \times b = 32$

$b = 32 \div 8$

$b = 4$

$9 \times u = 63$

$u = 63 \div 9$

$u = 7$

$11 \times e = 55$

$e = 55 \div 11$

$e = 5$

$22 \times k = 44$

$k = 44 \div 22$

$k = 2$

$d \times 5 = 100$

$d = 100 \div 5$

$d = 20$

$h \times 20 = 400$

$h = 400 \div 20$

$h = 20$

Answer Sheet

Sudoku Answers



Hi Tech Sudoku

Difficulty: Easy

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

Sudoku Island

Difficulty: Medium

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

Honeycomb Sudoku

Difficulty: Hard

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

Sudoku Blocks

Difficulty: Very Hard

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