



I HAVE

MARCY COOK

MARCY COOK MATH

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INTRODUCTION

I HAVE is a book designed to be used by students in upper elementary grades (third grade and older) as well as junior high. The purpose is to provide experiences in mental mathematics. One student reads a problem; the others listen, think, evaluate their answer, and respond by reading their solution when it satisfies the question asked. This book contains 40 different I HAVE activities; each one is comprised of 24 different, related questions and answers. The table of contents provides a listing of the categorical types of problems; these range from basic arithmetic operations to place value, rounding, time, money, fractions, measurement, reasonableness and geometry. Many focus on maintaining arithmetic computational skills but the real emphasis is on mental mathematics, number sense, and utilization of the language and vocabulary of mathematics. These are perfect activities to maintain and reinforce

for employing I HAVE in the classroom. If the class is small (24 students or less) all 24 strips are distributed throughout the class; if necessary, some students may have more than one strip since all of the questions need to be given out. The teacher then asks any student to begin by reading his/her strip; a statement is read first (example: I have 7.) followed by a question (example: Who has the number in 2 dozen?). The students all look at their strips; the one with the answer to the question then reads his/her strip. This continues until the original reader responds once again; the questions are done in a circular fashion which brings them back to the "starter."

If the class is larger than 24 (as most are!!!) the teacher may elect to use this activity in smaller groups; this is especially effective when math grouping is used for instructional purposes. In this way the specific I HAVE can be

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competing against each other. One way is to run 2 copies of the questions and cutting them into strips; thus, 48 strips are distributed among the students (with some having two strips if necessary). One student (usually one with 2 strips) is asked to start by reading his/her strip. The teacher collects the strips as they are read. Two students will have the same strip so it is the first one who reads it who will have the strip collected. (Sometimes teacher judgment is necessary to determine who was "first.") When the first question is read the teacher says "STOP"; at this point all those who are free of their strips are considered the FFT's (Fasties For Today). The teacher then says "GO"; reading and responding continues until all strips have been collected (returning once again to the first one read). For this activity it is important for the teacher to know

(having heard the questions and answers from the first team).

I HAVE may also be used as an evaluative technique. Each student in the class (or group) numbers from 1 to 24 on a piece of paper (or uses the recording sheet provided on the following page to be duplicated for student use). The teacher then reads a question and has the students write the answer; the teacher continues reading all 24 questions in order. It is important to remember which question is the first one and also to ask the questions in order (from the original uncut page is the best). To correct the written responses the students could exchange papers or correct their own (teacher decision); the 24 strips are then distributed throughout the class. The starting problem must be read first; students proceed as before, reading their answers when appropriate and also correcting the paper before them.

For testing purposes it is best to use I HAVE activities which have specific answers as opposed to more open-ended solutions. The following pages contain problems conducive to evaluating:

page 2

3

6

9

11 (with one open-ended: who has a time when the small hand is on the one?)

12

31

13

32

14

35

16

37

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(with two exceptions: $\sqrt{10}$ is between 3 and 4 $\sqrt{20}$ is between 4 and 5)

verifying the sequence of responses.

I HAVE is a valuable source of ideas for classroom mental math. Often a teacher explains something, gives the students a ditto, feels it is learned, and "moves on." Instead, a teacher should be providing constant reinforcement for the concepts, skills and language of past learnings. For example, the terms for angles in geometry (found on page 40) are likely to be forgotten if they are not used over and over again; if the I HAVE activity is utilized periodically the students are more likely to retain the information. Thus, this book becomes a means for drilling and practicing (without paper and pencil). A technique to increase the anxiety level (and keep students "on their toes") is to ring a small bell periodically; this signals all students to pass one of their strips to the next person (clockwise). In this way a student is never sure of being done, for he/she may have to respond again (and again perhaps). It is important for the teacher to determine the direction for passing the strips or it may become

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Addition

<p>I have 50. Who has the sum of our largest 2 (different) digits?</p>	<p>I have 100. Who has a problem with a sum in the sixties?</p>
<p>I have 17. Who has a problem with the sum less than 5?</p>	<p>I have $29 + 39$. Who has $15 + 25$?</p>
<p>I have $3 + 1$. Who has 2 numbers which have a sum of 12?</p>	<p>I have 40. Who has a problem with a sum > 200?</p>
<p>I have 5 and 7. Who has 2 numbers which have a sum of 16?</p>	<p>I have $99 + 99 + 49$? Who has a problem with a 3 in the units place of the sum?</p>
<p>I have 9 and 7. Who has a problem with a one in the units place of the sum?</p>	<p>I have $17 + 46$. Who has the sum of our even digits?</p>
<p>I have $6 + 5$. Who has $2 + 3 + 4$?</p>	<p>I have 20. Who has the sum of $9 + 9 + 9$?</p>
<p>I have 9. Who has 2 numbers with the sum of 10?</p>	<p>I have 27. Who has 2 numbers with the sum of 14?</p>
<p>I have 7 and 3. Who has 10 plus 37?</p>	<p>I have 8 and 6. Who has $30 + 58$?</p>
<p>I have 47. Who has 2 numbers with the sum of 15?</p>	<p>I have 88. Who has the smallest sum for 2 different even digits?</p>
<p>I have 8 and 7. Who has $40 + 50$?</p>	<p>I have 2, the sum of 0 and 2. Who has a problem with 2 zeros in the sum?</p>
<p>I have 90. Who has 20 plus me?</p>	<p>I have $75 + 25 + 75 + 25$ Who has 40 plus 100?</p>
<p>I have 110. Who has $50 + 25 + 25$?</p>	<p>I have 140. Who has $15 + 15 + 20$?</p>

Subtraction

I have 0. Who has 18 minus 9?	I have 14. Who has 100 subtract 60?
I have 9. Who has 15 take away 8?	I have 40. Who has 13 - 5?
I have 7. Who has 24 subtract 13?	I have 8. Who has 30 minus 20?
I have 11. Who has 45 minus 15?	I have 10. Who has 49 take away 4 dozen?
I have 30. Who has 15 - 13?	I have 1. Who has 19 - 16?
I have 2. Who has 50 take away 25?	I have 3. Who has 37 minus 10?
I have 25. Who has 13 minus 7?	I have 27. Who has 39 take away 19?
I have 6. Who has 100 take away 35?	I have 20. Who has 64 subtract 5?
I have 65. Who has 30 subtract 15?	I have 59. Who has 20 - 8?
I have 15. Who has 99 - 50?	I have 12. Who has 100 minus 50?
I have 49. Who has 101 take away 3?	I have 50. Who has 99 minus 11?
I have 98. Who has 2 dozen minus 10?	I have 88. Who has 1 dozen minus 12?

More / Less

I have 23. Who has 1 more than half 100?	I have 20. Who has 4 less than half a dozen?
I have 51. Who has 2 less than one dozen?	I have 2. Who has 9 more than 27?
I have 10. Who has 10 less than the largest 2-digit number?	I have 36. Who has 8 less than 60?
I have 89. Who has 3 more than half a dozen?	I have 52. Who has 50 more than the number of pennies in a nickel?
I have 9. Who has 8 more than 40?	I have 55. Who has 25 less than 100?
I have 48. Who has 2 less than 2 dozen?	I have 75. Who has 12 less than 42?
I have 22. Who has 20 more than 14?	I have 60. Who has 9 more than two tens?
I have 34. Who has 40 more than itself?	I have 29. Who has 3 less than 20?
I have 80. Who has three less than half a dozen?	I have 17. Who has 15 less than 31?
I have 3. Who has 2 more than the smallest 2-digit number?	I have 16. Who has 2 less than me?
I have 12. Who has 2 less than 90?	I have 14. Who has 5 more than 45?
I have 88. Who has 10 more than our smallest 2-digit number?	I have 50. Who has 2 less than the number of pennies in a quarter?

Between

I have 49. Who has an even number between 52 and 77?	I have 24. Who has an odd number between 2 and 3 dozen?
I have 74. Who has an odd number between 10 and 20?	I have 31. Who has an even number between 39 and 50?
I have 17. Who has a number between 4 tens and 48?	I have 48. Who has an even number between 14 and 2 dozen?
I have 43. Who has an even number between our smallest 2-digit number and 15?	I have 18. Who has an odd number between 37 and 41?
I have 12. Who has an odd number between 56 and 78?	I have 39. Who has an even number between 24 and 29?
I have 67. Who has an odd number between 90 and 100?	I have 28. Who has a number between 93 and 99?
I have 93. Who has a number between 78 and 85?	I have 98. Who has an even number between 48 and 54?
I have 80. Who has an even number between 28 and 36?	I have 52. Who has an even number between 36 and 42?
I have 34. Who has a number between $\frac{1}{2}$ dozen and a dozen?	I have 38. Who has a number between 99 and 109?
I have 7. Who has an odd number between 3 dozen and 39?	I have 100. Who has an even number between 86 and 96?
I have 37. Who has a number between 1 and 7?	I have 88. Who has a number between 0 and 1?
I have $4\frac{1}{2}$. Who has a number between 19 and 25?	I have $\frac{1}{3}$. Who has a number between 4 dozen and 50?

Place Value

I have 9. Who has an even 2 digit number?	I have 562. Who has the smallest even counting number > 2 ?
I have 56. Who has a number with 7 in the tens place?	I have 4. Who has the largest even digit?
I have 871. Who has a number larger than 986 but less than 1086?	I have 8. Who has a number with more than two zeros?
I have 1041. Who has a number with all 3 digits even?	I have 90,010. Who has a number with 3 in the hundreds place?
I have 244. Who has a number with 8 in the tens place?	I have 306. Who has a number between 60 and 70?
I have 83. Who has the largest 2 digit number?	I have 65. Who has 10 less than 49?
I have 99. Who has a number with more than 8 in the hundreds?	I have 39. Who has 20 more than 81?
I have 938. Who has 10 more than 758?	I have 101. Who has a number with 5 in the thousands place?
I have 768. Who has 200 less than me?	I have 15,821. Who has a number more than 91,000?
I have 568. Who has the smallest 3 digit number?	I have 91,121. Who has the smallest 2 digit odd number?
I have 100. Who has 10 more than 96?	I have 11. Who has a number with 4 in the hundreds place?
I have 106. Who has a number with a 2 in the units place?	I have 413. Who has the largest digit in our system?

Concepts/Computation

I have 25. Who has the number in a dozen, plus 4?	I have 20. Who has the number in 2 dozen doubled?
I have 16. Who has the number of seconds in a minute, minus 2?	I have 48. Who has the number of pints in 2 quarts?
I have 58. Who has the number of feet in a yard, plus 10?	I have 4. Who has the number of pennies in \$3.00?
I have 13. Who has the number of days in January, minus 10?	I have 300. Who has the number of inches in 2 yards?
I have 21. Who has the number of inches in a foot, minus 5?	I have 72. Who has the number of days in June, plus 10?
I have 7. Who has the number of months in a year, doubled?	I have 40. Who has the number of dimes in \$5.00?
I have 24. Who has the number of days in a week, minus 7?	I have 50. Who has the number in 3 dozen, minus 1?
I have 0. Who has the number of centimeters in a meter, doubled?	I have 35. Who has the number of feet in a yard, tripled?
I have 200. Who has the number of inches in a foot divided in half?	I have 9. Who has the number of days in a week, plus 10?
I have 6. Who has the number of nickels in a quarter, plus 3?	I have 17. Who has the number in a pair, plus a dozen?
I have 8. Who has the number of minutes in 2 hours?	I have 14. Who has the number of months in a year, plus 6?
I have 120. Who has the number in 2 dozen, minus 4?	I have 18. Who has the number for 2 decades, plus 5?

Sum of Digits

I have 999. Who has a number with the sum of the digits 15?	I have 54. Who has a number with the sum of the digits 13?
I have 87. Who has a number with the sum of the digits > 28 ?	I have 94. Who has a number with the sum of the digits 21?
I have 88,556. Who has a number with the sum of the digits 10?	I have 777. Who has a number with the sum of the digits 6?
I have 1045. Who has a number with the sum of the digits 18?	I have 24. Who has a number with the sum of the digits 17?
I have 639. Who has a number with the sum of the digits < 4 ?	I have 908. Who has a number with the sum of the digits 7?
I have 10,101. Who has a number with the sum of the digits 11?	I have 214. Who has a number with the sum of the digits 24?
I have 83. Who has a number with the sum of the digits 19?	I have 888. Who has a number with the sum of the digits 22?
I have 14,950. Who has a number with the sum of the digits 5?	I have 994. Who has a number with the sum of the digits 8?
I have 41,000. Who has a number with the sum of the digits 16?	I have 2,222. Who has a number with the sum of the digits 14?
I have 15,064. Who has a number with the sum of the digits 12?	I have 347. Who has a number with the sum of the digits 25?
I have 804. Who has a number with the sum of the digits 20?	I have 55,555. Who has a number with the sum of the digits 28?
I have 91,145. Who has a number with the sum of the digits 9?	I have 7777. Who has a number with the sum of the digits 27?

Money: Coins

I have 3 pennies. Who has 75¢?	I have 1 quarter, 2 dimes and a penny. Who has 65¢?
I have 3 quarters. Who has 17¢?	I have a dime, a nickel and a half-dollar. Who has 100 pennies?
I have 3 nickels and 2 pennies. Who has 51¢?	I have one dollar Who has 80¢?
I have a penny and a half dollar. Who has 23¢?	I have a quarter, a nickel and a half-dollar Who has 41¢?
I have 2 dimes and 3 pennies. Who has 60¢?	I have 8 nickels and 1 penny. Who has 54¢?
I have half a dozen dimes. Who has 5¢?	I have 1 quarter, 2 dimes, 1 nickel and 4 pennies. Who has 11¢?
I have one nickel. Who has a nickel more than me?	I have 2 nickels and a penny. Who has 50¢?
I have one dime. Who has 32¢?	I have 2 quarters. Who has 35¢?
I have a quarter, a nickel and 2 pennies. Who has 79¢?	I have 1 dime and 1 quarter. Who has more than a dollar?
I have 3 quarters and 4 pennies. Who has 99¢?	I have 1 quarter, 3 dimes and a half-dollar. Who has 45¢?
I have 8 dimes, 3 nickels and 4 pennies. Who has 25¢?	I have 3 dimes and 3 nickels. Who has 85¢?
I have one quarter. Who has 46¢?	I have 3 dimes, a half-dollar and a nickel. Who has less than a nickel?

Money: Value

I have 50¢. Who has the value of 2 dimes?	I have 91¢. Who has a quarter, a dime, a nickel and 3 pennies?
I have 20¢. Who has the largest value less than one dollar?	I have 43¢. Who has an amount 25¢ greater than \$1.00?
I have 99¢. Who has the value of our smallest valued coin?	I have \$1.25. Who has the value of a dime?
I have 1¢. Who has the value of a dime, a nickel and a quarter?	I have 10¢. Who has 3 dimes and 3 pennies?
I have 40¢. Who has the value of 3 quarters?	I have 33¢. Who has a nickel less than 88¢?
I have 75¢. Who has 3¢ less than 6 dimes?	I have 83¢. Who has 9 dimes?
I have 57¢. Who has a value with exactly 2 pennies and a dime?	I have 90¢. Who has 2¢ less than a quarter?
I have 12¢. Who has the value of 7 nickels?	I have 23¢. Who has a half dollar and 2 nickels?
I have 35¢. Who has 100 pennies?	I have 60¢. Who has 2 quarters, 4 dimes and 4 pennies?
I have one dollar. Who has 75¢ less than I?	I have 94¢. Who has half of my amount?
I have 25¢. Who has 2 dimes and 2 nickels?	I have 47¢. Who has 5 nickels and 3 dimes?
I have 30¢. Who has 9 dimes and a penny?	I have 55¢. Who has half a dollar?

Money: Change

I have 90¢. Who has a nickel less than a quarter?	I have 2 quarters, 2 dimes and a penny. Who has change for a quarter?
I have 20¢. Who has a dime less than 37¢?	I have 2 dimes and a nickel. Who has change for 15¢ from a half-dollar?
I have 27¢. Who has a quarter and a nickel less than \$1.00?	I have 35¢. Who has change for 88¢ from a dollar?
I have 70¢. Who has 4 pennies less than 50¢?	I have a dime and 2 pennies. Who has change for 18¢ from a quarter?
I have 46¢. Who has 3 nickels less than one dollar?	I have a nickel and 2 pennies. Who has 2 dimes less than a half-dollar?
I have 85¢. Who has a quarter and 2 dimes less than \$1.00?	I have 30¢. Who has change for a dollar?
I have 55¢. Who has change for 49¢ from a dollar?	I have 2 quarters and a half-dollar. Who has a nickel less than 20¢?
I have 2 quarters and a penny. Who has a nickel less than a dime?	I have 15¢. Who has a penny less than 90¢?
I have 5¢. Who has change for 68¢ from a dollar?	I have 89¢. Who has a dime less than 3 quarters?
I have 2 pennies and 3 dimes. Who has change for 25¢ from a dollar?	I have 65¢. Who has change for a half-dollar?
I have 75¢. Who has change for 94¢ from a dollar?	I have 5 dimes. Who has change for 73¢ from 3 quarters?
I have half a dozen pennies. Who has change for 29¢ from a dollar?	I have 2¢. Who has change for 10¢ from a dollar?

Clock Time

<p>I have 12:59. Who has a quarter to 7?</p>	<p>I have 10:30 A.M. Who has nine minutes after midnight?</p>
<p>I have 6:45. Who has 15 minutes after me?</p>	<p>I have 12:09 A.M. Who has fifteen minutes before eight?</p>
<p>I have 7 o'clock. Who has 7 hours after me?</p>	<p>I have 7:45. Who has half past 4?</p>
<p>I have 2 o'clock. Who has an hour and a half before midnight?</p>	<p>I have 4:30. Who has 5 minutes later than 8:45?</p>
<p>I have 10:30 P.M. Who has 20 to 6?</p>	<p>I have 8:50. Who has 1 minute less than a quarter past 5?</p>
<p>I have 5:40. Who has 9 minutes before the time when both hands are on 12?</p>	<p>I have 5:14. Who has five minutes past eight?</p>
<p>I have 11:51. Who has half an hour later than 2:20?</p>	<p>I have 8:05. Who has ten to ten?</p>
<p>I have 2:50. Who has half an hour later than 3:45?</p>	<p>I have 9:50. Who has 2 hours earlier than 5:30?</p>
<p>I have 4:15. Who has 2 minutes after three?</p>	<p>I have 3:30. Who has a quarter past 5?</p>
<p>I have 3:02. Who has a quarter til 10?</p>	<p>I have 5:15. Who has a time when the small hand is on the one?</p>
<p>I have 9:45. Who has 5 minutes before noon?</p>	<p>I have 1:09. Who has $1\frac{1}{2}$ hours before 7:00?</p>
<p>I have 11:55 A.M. Who has an hour later than 9:30 in the morning?</p>	<p>I have 5:30. Who has 7 minutes before 1:06?</p>

Number Sense

I have 2. Who has the number of cards in a standard deck?	I have 1. Who has the number of eggs in 3 dozen?
I have 52. Who has the number of sides on a die?	I have 36. Who has the number of athletic events in a pentathlon?
I have 6. Who has the number of numerals on a clock?	I have 5. Who has the number in quadruplets?
I have 12. Who has the number of letters in our alphabet?	I have 4. Who has the number of legs on a tripod?
I have 26. Who has the number of different digits in our system?	I have 3. Who has the number of days in a week?
I have 10. Who has the number of years in a century?	I have 7. Who has the number of days in a year (not leap year)?
I have 100. Who has the number of stripes on the American flag?	I have 365. Who has the number of months in $\frac{3}{4}$ year?
I have 13. Who has the number of notes in an octave?	I have 9. Who has the number of degrees Fahrenheit for freezing water?
I have 8. Who has the number of small squares on a checkerboard?	I have 32. Who has the number of minutes in an hour?
I have 64. Who has the number of degrees latitude at the Equator?	I have 60. Who has the number of apples in 4 dozen?
I have 0. Who has the number of states in the USA?	I have 48. Who has the number of legs on 4 cows?
I have 50. Who has the number of wheels on a unicycle?	I have 16. Who has the number in a pair?

Number Sense #2

I have 12. Who has the number of sides on a stop sign?	I have 60. Who has the number of years in a decade?
I have 8. Who has the number of donuts in 2 dozen?	I have 10. Who has the number of seasons in a year?
I have 24. Who has the number of wheels on a triicycle?	I have 4. Who has the number of legs on 2 octopi?
I have 3. Who has the number of yards for a football field?	I have 16. Who has the number of innings in a baseball game (without overtime)?
I have 100. Who has the number of legs on an insect?	I have 9. Who has the number of years in half a century?
I have 6. Who has the number of shells on a bivalve?	I have 50. Who has the number of digits on a clock?
I have 2. Who has the number in quintuplets?	I have 15. Who has the number of legs on 9 birds?
I have 5. Who has the number of horns on a unicorn?	I have 18. Who has the number of spade cards in a deck of cards?
I have 1. Who has the number of years in a quarter of a century?	I have 13. Who has the number of legs on 8 horses?
I have 25. Who has degrees Celsius at which water freezes?	I have 32. Who has the number of oranges in $5\frac{1}{2}$ dozen?
I have 0. Who has the number of days in a leap year?	I have 60. Who has the number of pennies in \$5.00?
I have 366. Who has the number of seconds in a minute?	I have 500. Who has the number of signs of the zodiac?

Multiplication Facts

I have 15. Who has 9×3 ?	I have 21. Who has 8×3 ?
I have 27. Who has 8×4 ?	I have 24. Who has 9×7 ?
I have 32. Who has 9×9 ?	I have 63. Who has 8×7 ?
I have 81. Who has 7×4 ?	I have 56. Who has 5×4 ?
I have 28. Who has 5×9 ?	I have 20. Who has 1×1 ?
I have 45. Who has 2×8 ?	I have 1. Who has 6×6 ?
I have 16. Who has 6×7 ?	I have 36. Who has 3×4 ?
I have 42. Who has 9×8 ?	I have 12. Who has 9×6 ?
I have 72. Who has 2×7 ?	I have 54. Who has 5×7 ?
I have 14. Who has 6×5 ?	I have 35. Who has 5×5 ?
I have 30. Who has 8×8 ?	I have 25. Who has 8×5 ?
I have 64. Who has 3×7 ?	I have 40. Who has 3×5 ?

Multiplication

I have 56. Who has 9×5 ?	I have 8×6 . Who has a problem with a 4 in the units place of the product?
I have 45. Who has a problem with a product in the thirties?	I have 4×6 . Who has a problem with the product one more than me?
I have 7×5 . Who has a problem with the product being a single digit?	I have 5×5 . Who has 10×10 ?
I have 2×4 . Who has 9×7 ?	I have 100. Who has a multiple of 11?
I have 63. Who has a problem with a 1 in the units place of the product?	I have 77. Who has a problem with the product in the 80's?
I have 7×3 . Who has 3 numbers which give a product of 48?	I have 9×9 . Who has a problem with the product the smallest 2-digit number?
I have 2, 3 and 8. Who has a problem with the product = to 10×4 ?	I have 5×2 . Who has 3 numbers which give a product of 64?
I have 8×5 . Who has $3 \times 3 \times 8$?	I have 2, 4 and 8. Who has $5 \times 2 \times 6$?
I have 72. Who has a problem with a 1 in the tens place of the product?	I have 60. Who has a problem with the product the inverse of 72?
I have 6×3 . Who has $2 \times 2 \times 7$?	I have 9×3 . Who has 3 numbers which give a product of 20?
I have 28. Who has 7×7 ?	I have 1, 4, and 5. Who has a product between 8×5 and 9×5 ?
I have 49. Who has a problem with the product one less than me?	I have 42, the product of $6 + 7$. Who has 7×8 ?

Multiplication/Division Facts

I have 72. who has my number divided by 8?	I have 40. who has $36 \div 9$?
I have 9. who has 40 divided by 8?	I have 4. who has my number multiplied by 7?
I have 5. who has 7×2 ?	I have 28. who has 1×1 ?
I have 14. who has 6×3 ?	I have 1. who has 49 divided by 7?
I have 18. who has my number divided by 9?	I have 7. who has my number multiplied by 3?
I have 2. who has 8×4 ?	I have 21. who has 8 multiplied by 8?
I have 32. who has 12 divided by 4?	I have 64. who has 0 divided by 4?
I have 3. who has my number multiplied by 9?	I have 0. who has 7×6 ?
I have 27. who has $36 \div 6$?	I have 42. who has 9×9 ?
I have 6. who has my number times 4?	I have 81. who has 4 multiplied by 5?
I have 24. who has my number divided by 3?	I have 20. who has 6×9 ?
I have 8. who has my number multiplied by 5?	I have 54. who has 9 times 8?

Mixed Vocabulary

I have 1. Who has the number in a dozen?	I have 7. Who has the product of 8 and 4?
I have 12. Who has the number of degrees in a right angle?	I have 32. Who has 3 more than a dozen?
I have 90. Who has the number of sides on a triangle?	I have 15. Who has the divisor in the problem $8 \div 2 = 4$?
I have 3. Who has the number of minutes in an hour?	I have 2. Who has the number of sides on a pentagon?
I have 60. Who has a number between 94 and 96?	I have 5. Who has the largest single digit in our system?
I have 95. Who has the double of 15?	I have 9. Who has the difference in the problem 30 minus 10?
I have 30. Who has the number in half a dozen?	I have 20. Who has a factor of 19 other than one?
I have 6. Who has the number of pennies in a dollar?	I have 19. Who has the number of days in a year?
I have 100. Who has half of 80.	I have 365. Who has 9 tripled?
I have 40. Who has the number of sides on any quadrilateral?	I have 27. Who has the smallest 3-digit odd number?
I have 4. Who has the smallest 2 digit number?	I have 101. Who has the sum of 5 and 3?
I have 10. Who has the number of days in a week?	I have 8. Who has the smallest counting number?

Combination Drill

I have 60. Who has 9×3 ?	I have 24. Who has a number with 5 in the hundreds place?
I have 27. Who has $17 - 9$?	I have 1542. Who has the number of dimes in \$1.00?
I have 8. Who has $5 \times 9 \times 8 \times 0$?	I have 10. Who has half of 50?
I have 0. Who has $\frac{1}{2}$ of 40?	I have 25. Who has 4 times my number?
I have 20. Who has a number between 86 and 98.	I have 100. Who has 6×7 ?
I have 90. Who has $20 + 30$?	I have 42. Who has an odd number less than 9?
I have 50. Who has a ^{2 digit} number with a 6 in the ones place?	I have 5. Who has $16 + 16$?
I have 56. Who has 100 minus 30?	I have 32. Who has 10 more than 53?
I have 70. Who has half of 18?	I have 63. Who has $1 + 2 + 3 + 4 + 5$?
I have 9. Who has $24 \div 4$?	I have 15. Who has $1 + 1 \times 1$?
I have 6. Who has 5×7 ?	I have 2. Who has 15 less than 100?
I have 35. Who has 12 doubled?	I have 85. Who has $25 + 25 + 10$?

Combination: Upper

I have 2000. Who has half of 210?	I have 98. Who has a factor of 40?
I have 105. Who has a 2-digit prime number?	I have 8. Who has the number of quarters in \$3.00?
I have 29. Who has four squared?	I have 12. Who has a fraction equivalent to $\frac{2}{3}$?
I have 16. Who has a fraction equivalent to $\frac{1}{2}$?	I have $\frac{8}{12}$. Who has 1 more than 1099?
I have $\frac{6}{12}$. Who has the reversal of 45?	I have 1100. Who has 60 more than 58?
I have 54. Who has a 2-digit palindromic number?	I have 118. Who has the number of degrees in a right angle?
I have 77. Who has $100 \div 4$?	I have 90. Who has the number of centimeters in a meter?
I have 25. Who has 80×7 ?	I have 100. Who has 76 less than 100?
I have 560. Who has the square root of 9?	I have 24. Who has a number with 6 in the hundreds place?
I have 3. Who has an improper fraction?	I have 1632. Who has the number in 3 dozen?
I have $\frac{5}{4}$. Who has $75 + 50$?	I have 36. Who has 10 times 9 minus 9?
I have 125. Who has the double of 49?	I have 81. Who has the number of pounds in a ton?

Factors

I have $2 \times 3 \times 5$. Who has the largest factor of 36 other than 36?	I have 2: 1 and 19. Who has the number of factors of 8?
I have 18. Who has 2 factors of 25 other than 25?	I have 4: 1, 2, 4 and 8. Who has the 3rd largest factor of 100?
I have 1 and 5. Who has a number with only 2 factors: one and 13?	I have 25. Who has a number with more than 7 factors?
I have 13. Who has the smallest factor of 49 other than 1?	I have 24, which has 8 factors: 1, 2, 3, 4, 6, 8, 12, 24. Who has a digit not considered a factor of any number?
I have 7. Who has 2 factors of 9 other than 1?	I have 0. Who has the digit that is a factor of every number?
I have 3 and 9. Who has an even number > 4 that is a factor of 40?	I have 1. Who has the factors for 23?
I have 10. Who has two factors of 56?	I have 23 and 1. Who has the largest factor of 98?
I have 8 and 7. Who has all the factors of 77?	I have 98. Who has the prime factorization for 45?
I have 1, 7, 11, and 77. Who has an odd number that is a factor of 34 and is > 1 ?	I have $3 \times 3 \times 5$. Who has the second largest factor of 80?
I have 17. Who has a number with the factors of 1, 3, 7 and 21?	I have 40. Who has two factors of 38?
I have 21. Who has the largest factor of 30 other than 30?	I have 2 and 19. Who has a factor of 90 that is larger than 30?
I have 15. Who has the number of factors of 19?	I have 45. Who has the prime factorization for 30?

Calendar

I have 1.
Who has the number of months in a year?

I have Thursday.
Who has the date for 2 weeks after the 10th?

I have 12.
Who has the ordinal number for the month of October?

I have the 24th.
Who has a week before me?

I have 10th.
Who has the largest date number?

I have the 17th.
Who has the sum of Valentines Day and the day before?

I have 31.
Who has a week later than the 4th?

I have 27.
Who has the number of seasons in half a year?

I have the 11th.
Who has the day of the 27th if the 21st is on Monday?

I have 2.
Who has the last date of September?

I have Sunday.
Who has the ordinal number for the month of July?

I have 30.
Who has the date of the first Saturday of the month, if the 2nd is on Thursday?

I have 7th.
Who has the largest 2 digit number found in every month?

I have the 4th.
Who has 3 weeks later than me?

I have 28.
Who has the number of months in a quarter of a year?

I have the 25th.
Who has the number of months in the last half of the year?

I have 3.
Who has the sum of the digits of Valentines Day?

I have 6.
Who has the day of the week for the 15th, if the 1st is on Tuesday?

I have 5.
Who has the date 2 days before Halloween?

I have Tuesday.
Who has the month affected each leap year?

I have 29.
Who has the number of weeks in a year?

I have February.
Who has the month ending the first half of the year?

I have 52.
Who has the day of the 18th if the 21st is on Sunday?

I have June.
Who has the number of years in 365 days?

Rounding

I have 10.

Who has 68 rounded to the nearest ten?

I have 60.

Who has 1986 rounded to the nearest hundred?

I have 70.

Who has 194 rounded to the nearest ten?

I have 2000.

Who has 461 rounded to the nearest ten?

I have 190.

Who has 81 rounded to the nearest hundred?

I have 460.

Who has 163 rounded to the nearest hundred?

I have 100.

Who has 4711 rounded to the nearest thousand?

I have 200.

Who has 5591 rounded to the nearest thousand?

I have 5000.

Who has 567 rounded to the nearest hundred?

I have 6000.

Who has 24 rounded to the nearest ten?

I have 600.

Who has 19 rounded to the nearest hundred?

I have 20.

Who has 619 rounded to the nearest ten?

I have 0.

Who has 173 rounded to the nearest ten?

I have 620.

Who has 84 rounded to the nearest ten?

I have 170.

Who has 1832 rounded to the nearest hundred?

I have 80.

Who has 6132 rounded to the nearest hundred?

I have 1800.

Who has 3542 rounded to the nearest thousand?

I have 6100.

Who has 36 rounded to the nearest ten?

I have 4000.

Who has 137 rounded to the nearest ten?

I have 40.

Who has 126 rounded to the nearest ten?

I have 140.

Who has $31\frac{1}{2}$ rounded to the nearest ten?

I have 130.

Who has 840 rounded to the nearest thousand?

I have 30.

Who has 56 rounded to the nearest ten?

I have 1000.

Who has 13 rounded to the nearest ten?

Metric

I have Kilogram. Who has the number of decimeters in a meter?	I have centi. Who has the abbreviation for Kilometer?
I have 10. Who has the number of grams in a Kilogram?	I have Km. Who has the number of meters in 6 hectometers?
I have 1000. Who has the number of centimeters in a meter?	I have 600. Who has the prefix for $\frac{1}{1000}$?
I have 100. Who has the abbreviation for millimeter?	I have milli. Who has the term for 100 meters?
I have mm. Who has a measure equal to one meter?	I have hectometer. Who has the abbreviation for kiloliter?
I have 10 decimeters. Who has half a Kilogram?	I have Kl. Who has the number of milliliters in 2 liters?
I have 500 grams. Who has the abbreviation for milligram?	I have 2000. Who has the abbreviation for milliliter?
I have mg. Who has the number of meters in 100 centimeters?	I have ml. Who has the number of meters in 400 centimeters?
I have l. Who has the prefix for $\frac{1}{10}$?	I have 4. Who has $\frac{1}{10}$ th of a liter?
I have deci. Who has the number of centimeters in 3 meters?	I have a deciliter. Who has $\frac{1}{10}$ th of me?
I have 300. Who has a measure equal to a liter?	I have a centiliter. Who has the number of millimeters in 3 meter sticks?
I have 1000 milliliters. Who has the prefix for $\frac{1}{100}$?	I have 3000. Who has the term for 1000 grams?

Measurement (standard)

I have 10. Who has the number of feet in a yard?	I have 8. Who has the number of inches in a foot?
I have 3. Who has the number of inches in $\frac{1}{2}$ foot?	I have 12. Who has the number of inches in $\frac{3}{4}$ foot?
I have 6. Who has the number of feet in a mile?	I have 9. Who has the number of inches in $\frac{1}{2}$ yard?
I have 5280. Who has the number of pints in a quart?	I have 18. Who has the number of feet in 10 yards?
I have 2. Who has the number of inches in a yard?	I have 30. Who has the number of quarts in 5 gallons?
I have 36. Who has the number of quarts in a gallon?	I have 20. Who has the number of pints in 8 quarts?
I have 4. Who has the number of inches in $\frac{2}{3}$ yard?	I have 16. Who has the number of inches in 10 feet?
I have 24. Who has the number of feet in 12 inches?	I have 120. Who has the number of inches in 2 yardsticks?
I have 1. Who has the number of feet in 5 yards?	I have 72. Who has the number of quarts in 10 pints?
I have 15. Who has the number of inches in 4 feet?	I have 5. Who has the number of ounces in 2 pounds?
I have 48. Who has the number of yards in a mile?	I have 32. Who has the number of pounds in a ton?
I have 1760. Who has the number of quarts in 2 gallons?	I have 2000. Who has the number of feet in $3\frac{1}{3}$ yard?

Arithmetic Progressions

I have 7, 8, 9, 10, 11, 12, . . . Who has my next number?	I have 15. Who has the next number in 20, 31, 42, 53, 64 ?
I have 13. Who has a descending progression?	I have 75. Who has the common difference in 24, 36, 48, 60, 72, ?
I have 100, 90, 80, 70 Who has my next number?	I have 12. Who has the next number in 0, 2, 4, 6, 8 ?
I have 60. Who has the 6 th number in the progression, 3, 6, 9, 12 ?	I have 10. Who has the common difference in 200, 500, 800, 1100 ?
I have 18. Who has the common difference for 55, 60, 65, 70, 75, ?	I have 300. Who has the next number in 99, 97, 95, 93, 91 ?
I have 5. Who has the 10 th number in the progression, 0, 1, 2, 3, 4, ?	I have 89. Who has the 6 th number in 4, 8, 12, 16 ?
I have 9. Who has an ascending progression by 4?	I have 24. Who has a progression with the common difference 50?
I have 5, 9, 13, 17, 21 Who has my next number?	I have 40, 90, 140, 190, Who has an ascending progression by 3?
I have 25. Who has the next number in 54, 52, 50, 48, 46, ?	I have 2, 5, 8, 11, 14 Who has my next number?
I have 44. Who has the 10 th number in 10, 20, 30, 40, 50 ?	I have 17. Who has the next number of 15, 20, 25, 30, 35, 40, ?
I have 100. Who has the common difference of 52, 56, 60, 64, ?	I have 45. Who has the common difference for 2, 4, 6, 8, 10, 12, ?
I have 4. Who has the next number in 7, 9, 11, 13 ?	I have 2. Who has a progression with a common difference of 1?

Between Larger Numbers

I have 752,134. Who has a number between 965 and 1039?	I have 117. Who has a number between 10 thousand and 11 thousand?
I have 1025. Who has a number less than 96 but > 76 ?	I have 10,761. Who has a number between the days in 1 and 2 years?
I have 80. Who has a number between 3 and 4 dozen?	I have 500. Who has a number less than 8 hundreds but > 657 ?
I have 37. Who has a number less than 200 but > 167 ?	I have 782. Who has the number between $\frac{2}{3}$ and $\frac{3}{4}$ of 100?
I have 185. Who has a number between 912 and 992?	I have 71. Who has a number less than 10,500 but $> 8,250$?
I have 965. Who has a number between $3!$ and $4!$?	I have 10,000. Who has a number between 1987 and 2001?
I have 12. Who has a number between 5 tens and 6 tens?	I have 2000. Who has a number between 3000 and 3001?
I have 58. Who has a number between a dozen and $2\frac{1}{2}$ dozen?	I have 3000.75. Who has a number between 99,999 and 399,999?
I have 25. Who has a number less than 2000 but > 1972 ?	I have 124,307. Who has a number between 10,800 and 13,400?
I have 1980. Who has a number between 48 and half 100?	I have 11,000. Who has a number less than 9500 but > 6500 ?
I have 49. Who has a number less than 5760 but > 4830 ?	I have 8250. Who has a number between 2184 and 3000?
I have 5198. Who has a number between 95 and 145?	I have 2341. Who has a number between $\frac{1}{2}$ a million and a million?

Remainder

I have 17. Who has the remainder in $8 \div 4$?	I have 8. Who has the remainder of $75 \div 30$?
I have 0. Who has the remainder in $27 \div 5$?	I have 15. Who has the remainder of $100 \div 75$?
I have 2. Who has the remainder in $48 \div 9$?	I have 25. Who has the remainder of $47 \div 12$?
I have 3. Who has the remainder in $100 \div 65$?	I have 11. Who has the remainder of $90 \div 33$?
I have 35. Who has the remainder in $47 \div 8$?	I have 24. Who has the remainder of $100 \div 35$?
I have 7. Who has the remainder in $50 \div 30$?	I have 30. Who has the remainder of $99 \div 10$?
I have 20. Who has the remainder in $65 \div 6$?	I have 9. Who has the remainder of $30 \div 18$?
I have 5. Who has the remainder in $100 \div 30$?	I have 12. Who has the remainder of $200 \div 101$?
I have 10. Who has the remainder in $9165 \div 2$?	I have 99. Who has the remainder of $98 \div 33$?
I have 1. Who has the remainder of $39 \div 5$?	I have 32. Who has the remainder of $99 \div 20$?
I have 4. Who has the remainder of $13 \div 7$?	I have 19. Who has the remainder of $58 \div 15$?
I have 6. Who has the remainder of $98 \div 9$?	I have 13. Who has the remainder of $77 \div 20$?

Fractional Parts

I have 9. Who has half of 12?	I have 33. Who has $\frac{1}{10}$ of 10?
I have 6. Who has a fifth of 15?	I have 1. Who has half of 24?
I have 3. Who has $\frac{1}{10}$ of 70?	I have 12. Who has $\frac{1}{3}$ of 90?
I have 7. Who has a fourth of 20?	I have 30. Who has $\frac{1}{10}$ of 1000?
I have 5. Who has $\frac{1}{10}$ of 100?	I have 100. Who has $\frac{1}{4}$ of 8?
I have 10. Who has half of 50?	I have 2. Who has half of 32?
I have 25. Who has $\frac{1}{3}$ of 24?	I have 16. Who has $\frac{1}{3}$ of 12?
I have 8. Who has $\frac{1}{4}$ of 800?	I have 4. Who has $\frac{1}{10}$ of 130?
I have 200. Who has $\frac{1}{2}$ of 90?	I have 13. Who has $\frac{1}{2}$ of 30?
I have 45. Who has a third of 60?	I have 15. Who has half of 100?
I have 20. Who has half of 70?	I have 50. Who has $\frac{1}{3}$ of 100?
I have 35. Who has $\frac{1}{3}$ of 99?	I have $33\frac{1}{3}$. Who has half of 18?

Prime Factors

I have 3×7 . Who has the prime factorization of 20?	I have $2 \times 2 \times 5 \times 5$. Who has the prime factorization of 22?
I have $2 \times 2 \times 5$. Who has the prime factorization of 33?	I have 2×11 . Who has the prime factorization for 10?
I have 3×11 . Who has the prime factorization of 40?	I have 2×5 . Who has the prime factorization for 34?
I have $2 \times 2 \times 2 \times 5$. Who has the prime factorization of 14?	I have 17×2 . Who has the prime factorization for 36?
I have 2×7 . Who has the prime factorization of 50?	I have $2 \times 3 \times 3 \times 2$. Who has the prime factorization for 45?
I have $2 \times 5 \times 5$. Who has the prime factorization of 24?	I have $3 \times 3 \times 5$. Who has the prime factorization for 32?
I have $2 \times 2 \times 2 \times 3$. Who has the prime factorization of 75?	I have $2 \times 2 \times 2 \times 2 \times 2$. Who has the prime factorization for 26?
I have $5 \times 5 \times 3$. Who has the prime factorization of 9?	I have 2×13 . Who has the prime factorization for 16?
I have 3×3 . Who has the prime factorization of 70?	I have $2 \times 2 \times 2 \times 2$. Who has the prime factorization for 55?
I have $2 \times 5 \times 7$. Who has the prime factorization of 25?	I have 5×11 . Who has the prime factorization for 94?
I have 5×5 . Who has the prime factorization of 18?	I have 47×2 . Who has the prime factorization for 39?
I have $2 \times 3 \times 3$. Who has the prime factorization of 100?	I have 13×3 . Who has the prime factorization for 21?

Squares / Square Roots

I have 64. Who has $\sqrt{25}$?	I have 4. Who has 6^2 ?
I have 5. Who has 4^2 ?	I have 36. Who has $\sqrt{49}$?
I have 16. Who has $\sqrt{100}$?	I have 7. Who has $\sqrt{4}$?
I have 10. Who has 7 squared?	I have 2. Who has 30^2 ?
I have 49. Who has $\sqrt{20}$?	I have 900. Who has 10 squared?
I have between 4 and 5. Who has 3^2 ?	I have 100. Who has $\sqrt{10}$?
I have 9. Who has me squared?	I have between 3 and 4. Who has $\sqrt{144}$?
I have 81. Who has 20 squared?	I have 12. Who has 12^2 ?
I have 400. Who has 1^2 ?	I have 144. Who has $\sqrt{36}$?
I have 1. Who has $\sqrt{64}$?	I have 6. Who has 5^2 ?
I have 8. Who has 0^2 ?	I have 25. Who has $\sqrt{9}$?
I have zero. Who has $\sqrt{16}$?	I have 3. Who has 8 squared?

Polygons/Perimeter/Area

I have 12. Who has the perimeter of a 4" x 2" rectangle?	I have 7. Who has the number of degrees in each angle of a square?
I have 12 inches. Who has the number of sides on a quadrilateral?	I have 90. Who has the number of sides on an octagon?
I have 4. Who has the perimeter of a triangle 13' on each side?	I have 8. Who has the area of a rectangle 7 feet long and 2 feet wide?
I have 39'. Who has the number of sides on a nonagon?	I have 14 (square feet) Who has the name of a polygon with 10 equal sides?
I have 9. Who has the perimeter of a regular pentagon, 4' on each side.	I have a regular decagon. Who has the number of sides on a pentagon?
I have 20'. Who has the number of degrees in each part of a bisected right angle?	I have 5. Who has the area of a rectangle 9 feet long and 3 feet wide?
I have 45. Who has the number of sides on a decagon?	I have 27 (square feet). Who has the name of a polygon with 8 equal sides?
I have 10. Who has the perimeter of a square 6 feet on each side?	I have a regular octagon. Who has the perimeter of a rhombus with 1 side = 10 feet?
I have 24'. Who has the number of sides on a hexagon?	I have 40'. Who has the number of sides on a triangle?
I have 6. Who has the total number of degrees in a square's angles?	I have 3. Who has the area of a square 6 feet on each side?
I have 360. Who has the name of a quadrilateral with 4 equal sides?	I have 36 (square feet). Who has the name of a polygon with 6 equal sides?
I have a rhombus. Who has the number of sides on a heptagon?	I have a regular hexagon. Who has the number of sides on a dodecagon?

Exponents

I have 4.
Who has 2^3 ?

I have 3^2 .
Who has 10^4 ?

I have 8.
Who has 10^0 ?

I have 10,000.
Who has 4^2 ?

I have 1.
Who has 3^3 ?

I have 16.
Who has $4^2 - 3^2$?

I have 27.
Who has 5^1 ?

I have 7.
Who has $3^2 + 5^2$?

I have 5
Who has 7^2 ?

I have 34.
Who has 6^2 ?

I have 49.
Who has 5^3 ?

I have 36.
Who has $7^2 + 1^2$?

I have 125.
Who has 10^2 ?

I have 50.
Who has $10^2 - 3^2$?

I have 100.
Who has 3^2 ?

I have 91.
Who has 8^2 ?

I have 9.
Who has $9^2 - 1$?

I have 64.
Who has $2^3 + 3^2$?

I have 80.
Who has 10^3 ?

I have 17.
Who has 6^1 ?

I have 1000.
Who has 5^2 ?

I have 6.
Who has $3^2 + 3^2$?

I have 25.
Who has 2^5 ?

I have 18.
Who has 2^2 ?

Terms & Concepts

I have denominator. Who has every two years?	I have 2. Who has the top number of a fraction?
I have biennial. Who has the identity element for multiplication?	I have numerator. Who has the operation for successive subtraction of same amount?
I have one. Who has the number of seasons in a year?	I have division. Who has the name for 10 years?
I have four. Who has the number of years in a century?	I have decade. Who has an ordinal number?
I have 100. Who has the term for all our numbers divisible by 2?	I have fifth. Who has the inverse of division?
I have even. Who has a palindromic number > 100?	I have multiplication. Who has the opposite of equal?
I have 7007. Who has the opposite of parallel?	I have unequal. Who has the term which means the number can be read the same forwards and backwards?
I have perpendicular. Who has the name of a number which tells how many?	I have palindromic. Who has twice a year?
I have cardinal number. Who has the inverse of addition?	I have biannual (or semiannual). Who has the number of months in half a year?
I have subtraction. Who has the opposite of ascending order?	I have six. Who has the opposite of even?
I have descending. Who has the number of decades in 4 centuries?	I have odd. Who has the identity element for addition?
I have 40. Who has the number of times a year interest is paid if it is paid biannually?	I have zero. Who has the bottom number of a fraction?

Fractions

I have $\frac{5}{10}$. Who has a fraction with 3 as the denominator?	I have $\frac{1}{7}$. Who has a fraction equivalent to $\frac{6}{18}$?
I have $\frac{2}{3}$. Who has a fraction between $\frac{9}{10}$ and 1?	I have $\frac{1}{3}$. Who has the reciprocal of $\frac{1}{10}$?
I have $\frac{15}{16}$. Who has my number minus $\frac{2}{16}$?	I have 10. Who has 1 minus $\frac{1}{4}$?
I have $\frac{13}{16}$. Who has $\frac{99}{100}$ simplified?	I have $\frac{3}{4}$. Who has 2 plus $\frac{6}{6}$.
I have $\frac{9}{10}$. Who has a fraction equivalent to $\frac{3}{4}$?	I have 3. Who has an improper fraction less than 2?
I have $\frac{6}{14}$. Who has my number plus $\frac{3}{14}$?	I have $\frac{3}{2}$. Who has $\frac{9}{18}$ simplified?
I have $\frac{9}{14}$. Who has a fraction with 4 as the numerator?	I have $\frac{1}{2}$. Who has a fraction larger than 2?
I have $\frac{4}{9}$. Who has a unit fraction smaller than $\frac{1}{10}$?	I have $\frac{5}{2}$. Who has a fraction with 5 as the denominator?
I have $\frac{1}{16}$. Who has $\frac{19}{12}$ simplified?	I have $\frac{3}{5}$. Who has $\frac{4}{8} - \frac{2}{4}$?
I have $\frac{5}{6}$. Who has $\frac{1}{2} + \frac{3}{6}$?	I have 0. Who has a fraction with 7 as the numerator?
I have 1. Who has a mixed number?	I have $\frac{7}{8}$. Who has a fraction equivalent to $\frac{1}{3}$?
I have $8\frac{1}{2}$. Who has 7 inverted?	I have $\frac{5}{15}$. Who has $\frac{1}{2}$ in another fractional form?

Common Fractions / Decimals / Percents

I have $12\frac{1}{2}\%$. Who has the percent for $\frac{1}{2}$?	I have 10% . Who has the fraction for $66\frac{2}{3}\%$?
I have 50% . Who has the decimal for $\frac{1}{10}$?	I have $\frac{2}{3}$. Who has the decimal for 80% ?
I have 0.1 . Who has the fraction for 25% ?	I have 0.8 . Who has the percent for $\frac{1}{6}$?
I have $\frac{1}{4}$. Who has the percent for $\frac{3}{5}$?	I have $16\frac{2}{3}\%$. Who has the common fraction for 5% ?
I have 60% . Who has the fraction for 70% ?	I have $\frac{1}{20}$. Who has my decimal value?
I have $\frac{7}{10}$. Who has the decimal for $\frac{1}{3}$?	I have $.05$. Who has the percent for $\frac{2}{6}$?
I have $.3\bar{3}$. Who has the percent for $\frac{3}{4}$?	I have $33\frac{1}{3}\%$. Who has $\frac{4}{10}$ as a percent?
I have 75% . Who has the common fraction for 0.5 ?	I have 40% . Who has the percent for $\frac{4}{5}$?
I have $\frac{1}{2}$. Who has the decimal fraction for $\frac{2}{5}$?	I have 80% . Who has the common fraction for 20% ?
I have 0.4 . Who has the percent for $\frac{10}{10}$?	I have $\frac{1}{5}$. Who has the percent for $\frac{2}{8}$?
I have 100% . Who has the common fraction for $33\frac{1}{3}\%$?	I have 25% . Who has the common fraction for $.75$?
I have $\frac{1}{3}$. Who has the percent for $\frac{1}{10}$?	I have $\frac{3}{4}$. Who has the percent for $\frac{1}{8}$?

Reasonable

I have 50¢. Who has a reasonable height in feet for a man?	I have 12:00 A.M. Who has a reasonable cost for a car?
I have 6. Who has a reasonable number of Saturdays in February?	I have \$12,000. Who has a reasonable cost for school lunch for a week?
I have 4. Who has a reasonable number of meals to eat in 1 week?	I have \$7.00. Who has a reasonable time for sunset in the USA?
I have 20. Who has a reasonable number for the age of a 6th grader?	I have 6:00 P.M. Who has a reasonable amount for yearly earnings if you are paid about \$260 each quarter?
I have 12. Who has a reasonable number of Mondays in a year?	I have \$1000. Who has a reasonable time for school age children to eat lunch?
I have 52. Who has a reasonable number of hours slept in a month?	I have 12:00 P.M. Who has a reasonable height in yards for a man?
I have 240. Who has a reasonable weight in pounds for a 13 year old?	I have 2. Who has a reasonable number for ditto paper if the pile is 2 inches high?
I have 100. Who has a reasonable number for grains of sand in 1 square foot?	I have 500. Who has a reasonable number of days in half a year?
I have more than 1000. Who has a reasonable number of inches for thickness of paper? <small>1 piece of paper</small>	I have 184. Who has a reasonable number of years to expect to live? (Life expectancy in U.S.A.)
I have $\frac{1}{200}$. Who has a reasonable height in yards for a 4 year old?	I have 75. Who has a reasonable number of days to attend 4 years of college (with summers off)?
I have 1. Who has a reasonable width in inches of a ladies index finger?	I have 700. Who has a reasonable time for sunrise in the USA?
I have $\frac{1}{2}$. Who has a reasonable time to expect school age children to be asleep?	I have 6:00 A.M. Who has a reasonable amount for the cost of a candy bar?

Positive/Negative Integers

I have 3. Who has the absolute value of negative 8?	I have 36. Who has negative 12 divided by 2?
I have 8. Who has -5 plus -5 ?	I have negative 6. Who has half of my number?
I have -10 . Who has -4 plus 9?	I have negative 3. Who has $8 - 12$?
I have 5. Who has 20 plus negative 16?	I have negative 4. Who has negative 5 times negative 2?
I have 4. Who has -3 plus 2?	I have 10. Who has the absolute value of -2 times 7?
I have negative 1. Who has the absolute value of a dozen?	I have 14. Who has 3 times negative 4?
I have 12. Who has negative 7 times 2?	I have -12 . Who has negative 7 plus 2?
I have negative 14. Who has 9 minus negative 2?	I have -5 . Who has 8 below 0?
I have 11. Who has negative 3 times negative 2?	I have -8 . Who has -1 times -1 ?
I have 6. Who has negative 12 times 3?	I have 1. Who has 10 minus 12?
I have negative 36. Who has the absolute value of the sum of -8 and 6?	I have negative 2. Who has -13 plus 2?
I have 2. Who has negative 6 plus 4?	I have negative 11. Who has -3 times -1 ?

Concepts/ Vocabulary

I have 10. Who has 2 numbers whose sum is 9 and product is 20?	I have 3 (inside, outside, and on). Who has 9 times $\frac{1}{2}$?
I have 5 and 4. Who has a prime number greater than 10?	I have $4\frac{1}{2}$. Who has 10^3 ?
I have 31. Who has the name for numbers greater than zero?	I have 1000. Who has $5!$ (factorial 5)?
I have positive numbers. Who has 30 divided by $\frac{1}{2}$ plus 10?	I have 120. Who has the cube root of 8? ($\sqrt[3]{8}$)
I have 70. Who has 3 consecutive numbers with the sum of 45?	I have 2. Who has $\frac{1}{4}$ of 100?
I have 14, 15, and 16. Who has $3 \times 4 \times 5 \times 0$?	I have 25. Who has the product of the first 3 counting numbers?
I have zero. Who has 8 divided by $\frac{1}{2}$?	I have 6. Who has a number less than zero?
I have 16. Who has the product of a number by its reciprocal?	I have a negative number. Who has 2 numbers whose sum is 8 and product is 12?
I have 1. Who has 3 different odd numbers that add up to 21?	I have 2 and 6. Who has half of 8?
I have 1, 7 and 13. Who has the number of hours in $\frac{1}{3}$ of a day?	I have 4. Who has a composite number between 30 and 40?
I have 8. Who has the product of the first 3 primes?	I have 32. Who has $4!$ (four factorial)?
I have 30. Who has the number of distinct sets that a circle divides a plane?	I have 24. Who has the cube root of 1000?

Geometry Terms

<p>I have parallel. Who has the name for all points on a circle?</p>	<p>I have equilateral. Who has an eight sided figure?</p>
<p>I have circumference. Who has a point equidistant from the 2 endpoints?</p>	<p>I have octagon. Who has a measure of $\frac{1}{360}n$ of a circle?</p>
<p>I have midpoint. Who has the ratio of the circumference of a circle to diameter?</p>	<p>I have degree. Who has an instrument for numerical measure of angles?</p>
<p>I have pi (3.14159+). Who has a closed broken-line figure (general term)?</p>	<p>I have protractor. Who has the distance around a rectangle?</p>
<p>I have polygon. Who has half a diameter of a circle?</p>	<p>I have perimeter. Who has an instrument for drawing circles and arcs?</p>
<p>I have radius. Who has 2 lines which intersect at right angles?</p>	<p>I have compass. Who has a 6 sided figure?</p>
<p>I have perpendicular. Who has the name of a segment of a curve?</p>	<p>I have hexagon. Who has the straight line which passes through the center of a circle and goes all the way across?</p>
<p>I have arc. Who has a geometric solid with 6 equal square faces?</p>	<p>I have diameter. Who has a 5 sided figure?</p>
<p>I have cube. Who has the name of a triangle with 2 equal sides?</p>	<p>I have pentagon. Who has a figure commonly seen as a tin can?</p>
<p>I have isosceles. Who has a straight line segment connecting opposite vertices of a rectangle?</p>	<p>I have cylinder. Who has the name of the side of a right triangle which is opposite the right angle?</p>
<p>I have diagonal. Who has a 10 sided figure?</p>	<p>I have hypotenuse. Who has a 9 sided figure?</p>
<p>I have decagon. Who has a triangle with 3 equal sides?</p>	<p>I have nonagon. Who has lines which do not intersect however far extended?</p>

Angles

I have zero. Who has the number of degrees in an acute angle that is $>40^\circ$?	I have 2. Who has the name of an angle between 90° and 180° ?
I have 60. Who has the number of degrees in a straight angle?	I have obtuse angle. Who has the name of the common point beginning an angle?
I have 180. Who has the name of an angle between 0 and 90° degrees?	I have vertex. Who has the number of right angles in a right triangle?
I have acute angle. Who has the number of 60° angles in an equilateral Δ ?	I have 1. Who has the number of degrees in a right angle?
I have 3. Who has the name for 2 angles which add to 180° ?	I have 90. Who has the term for dividing an angle into 2 = parts?
I have supplementary angles. Who has the number of degrees in a round angle (complete revolution)?	I have bisect. Who has the complementary angle to a 70° angle?
I have 360. Who has the name of a 90° angle?	I have 20° . Who has the number of degrees in an obtuse angle?
I have right angle. Who has the name for outside angles formed by lines cut by a transversal?	I have 100. Who has the name for inside angles formed when lines are cut by a transversal?
I have exterior angles. Who has the number of degrees in each part of a bisected 10° angle?	I have interior angles. Who has the name of an angle with 180 degrees?
I have 5. Who has the name for 2 plane angles sharing a side + vertex?	I have straight angle. Who has the number of degrees in each part of a bisected 38° degree angle?
I have adjacent angles. Who has the supplement of a 150° angle?	I have 19. Who has the name for 2 angles that add up to 90° ?
I have 30° . Who has the number of acute angles in a right triangle?	I have complementary angles. Who has the number of right angles in an acute triangle?