

INTRO TO CARRYING - HELP

ANSWERS - PAGE 1

YOU SHOULD ALREADY KNOW HOW TO ADD TWO DIGIT NUMBERS, BUT NOW WE NEED TO LEARN HOW TO CARRY.

CARRYING HUH? I'LL ASSUME YOU DO NOT MEAN ACTUALLY CARRYING A NUMBER.

THIS ISN'T TOO HARD.

I NEVER THOUGHT OF IT THAT WAY, BUT ACTUALLY THAT IS KIND OF WHAT WE'RE DOING. SOME MATH PEOPLE LIKE TO CALL IT REGROUPING, RENAMING, OR EVEN TRADING, BUT I LIKE CARRYING. IT'S EASIER TO REMEMBER.

LET ME SEE HERE...THE TERM IS USED IN ADDITION WHEN THE SUM IS TEN OR GREATER AND YOU NEED TO REGROUP A NUMBER OF TENS TO THE NEXT PLACE VALUE.

BEFORE WE ALL GET CONFUSED, LET ME SHOW YOU AN EXAMPLE.

WAIT A SECOND, WHEN YOU ADD 7 + 6 YOU GET 13.

$$\begin{array}{r} 27 \\ + 36 \\ \hline 27 \\ + 36 \\ \hline 13 \end{array}$$

EXACTLY, POE, AND WE CAN ONLY HAVE ONE DIGIT (NUMBER) IN EACH SPACE, WHICH MEANS WE NEED TO CARRY ONE OF THE DIGITS OVER.

AND SINCE THE 1 IS ON THE LEFT, WE MOVE IT UP AND OVER TO THE NEXT SET OF NUMBERS.

$$\begin{array}{r} 1 \\ 27 \\ + 36 \\ \hline 63 \end{array}$$

THEN WE JUST ADD THE THREE NUMBERS: 1 + 2 + 3, WHICH EQUALS 6.

AND WE GET THE ANSWER OF 63.

$$\begin{array}{r} 1 \\ 27 \\ + 36 \\ \hline 63 \end{array}$$

ANSWER: 63

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REMEMBER, YOU ALWAYS MOVE THE DIGIT ON THE LEFT TO THE LEFT.

HELPFUL EXAMPLE

CARRY THE ONE TO THE LEFT.

ADD: 1 + 5 + 2 = 8.

$$\begin{array}{r} 55 \\ + 25 \\ \hline 55 \\ + 25 \\ \hline 80 \end{array}$$

ANSWER

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|--|--|--|--|
| 1. $\begin{array}{r} 18 \\ + 15 \\ \hline 33 \end{array}$ | 2. $\begin{array}{r} 26 \\ + 57 \\ \hline 83 \end{array}$ | 3. $\begin{array}{r} 41 \\ + 39 \\ \hline 80 \end{array}$ | 4. $\begin{array}{r} 38 \\ + 37 \\ \hline 75 \end{array}$ |
| 5. $\begin{array}{r} 74 \\ + 18 \\ \hline 92 \end{array}$ | 6. $\begin{array}{r} 41 \\ + 34 \\ \hline 75 \end{array}$ | 7. $\begin{array}{r} 9 \\ + 48 \\ \hline 57 \end{array}$ | 8. $\begin{array}{r} 19 \\ + 23 \\ \hline 42 \end{array}$ |
| 9. $\begin{array}{r} 26 \\ + 40 \\ \hline 66 \end{array}$ | 10. $\begin{array}{r} 58 \\ + 32 \\ \hline 90 \end{array}$ | 11. $\begin{array}{r} 17 \\ + 16 \\ \hline 33 \end{array}$ | 12. $\begin{array}{r} 36 \\ + 24 \\ \hline 60 \end{array}$ |
| 13. $\begin{array}{r} 44 \\ + 53 \\ \hline 97 \end{array}$ | 14. $\begin{array}{r} 25 \\ + 47 \\ \hline 72 \end{array}$ | 15. $\begin{array}{r} 76 \\ + 7 \\ \hline 83 \end{array}$ | 16. $\begin{array}{r} 39 \\ + 59 \\ \hline 98 \end{array}$ |
| 17. $\begin{array}{r} 45 \\ + 25 \\ \hline 70 \end{array}$ | 18. $\begin{array}{r} 28 \\ + 33 \\ \hline 61 \end{array}$ | 19. $\begin{array}{r} 40 \\ + 39 \\ \hline 79 \end{array}$ | 20. $\begin{array}{r} 46 \\ + 48 \\ \hline 94 \end{array}$ |

I ALWAYS FORGET MY LEFT AND RIGHT.

I WRITE WITH MY RIGHT, SO I REMEMBER THAT WAY.

BUT WHAT IF YOU WRITE WITH YOUR LEFT?

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HEY MAX, IS CARRYING THE SAME NO MATTER WHERE IT HAPPENS?

YES, A MATTER OF FACT HERE IS AN EXAMPLE THAT SHOWS WHAT TO DO IF THE LAST DIGIT IS TOO BIG.

$$\begin{array}{r} 83 \\ + 74 \\ \hline 83 \\ + 74 \\ \hline 150 \end{array}$$

START

ADD: 3 + 4 = 7.

ADD: 8 + 7 = 15.

IT'S PRACTICALLY THE SAME.

CARRY THE ONE TO THE LEFT, BUT NOTHING IS BELOW SO BRING IT DOWN.

$$\begin{array}{r} 1 \\ 83 \\ + 74 \\ \hline 150 \end{array}$$

ANSWER

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|---|---|---|---|
| 1. $\begin{array}{r} 73 \\ + 51 \\ \hline 124 \end{array}$ | 2. $\begin{array}{r} 84 \\ + 80 \\ \hline 164 \end{array}$ | 3. $\begin{array}{r} 43 \\ + 92 \\ \hline 135 \end{array}$ | 4. $\begin{array}{r} 51 \\ + 55 \\ \hline 106 \end{array}$ |
| 5. $\begin{array}{r} 41 \\ + 41 \\ \hline 82 \end{array}$ | 6. $\begin{array}{r} 71 \\ + 96 \\ \hline 167 \end{array}$ | 7. $\begin{array}{r} 48 \\ + 37 \\ \hline 85 \end{array}$ | 8. $\begin{array}{r} 70 \\ + 80 \\ \hline 150 \end{array}$ |
| 9. $\begin{array}{r} 84 \\ + 90 \\ \hline 174 \end{array}$ | 10. $\begin{array}{r} 17 \\ + 55 \\ \hline 72 \end{array}$ | 11. $\begin{array}{r} 33 \\ + 64 \\ \hline 97 \end{array}$ | 12. $\begin{array}{r} 93 \\ + 65 \\ \hline 158 \end{array}$ |
| 13. $\begin{array}{r} 49 \\ + 29 \\ \hline 78 \end{array}$ | 14. $\begin{array}{r} 74 \\ + 93 \\ \hline 167 \end{array}$ | 15. $\begin{array}{r} 27 \\ + 52 \\ \hline 79 \end{array}$ | 16. $\begin{array}{r} 10 \\ + 95 \\ \hline 105 \end{array}$ |
| 17. $\begin{array}{r} 61 \\ + 77 \\ \hline 138 \end{array}$ | 18. $\begin{array}{r} 33 \\ + 42 \\ \hline 75 \end{array}$ | 19. $\begin{array}{r} 64 \\ + 64 \\ \hline 128 \end{array}$ | 20. $\begin{array}{r} 36 \\ + 24 \\ \hline 60 \end{array}$ |

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CARRYING IS THE SAME NO MATTER WHERE IT HAPPENS, AND IT CAN EVEN HAPPEN MORE THAN ONCE IN A PROBLEM.

$$\begin{array}{r} 76 \\ + 48 \\ \hline 76 \\ + 48 \\ \hline 124 \end{array}$$

START

ADD: 6 + 8 = 14.

CARRY THE ONE TO THE LEFT.

ADD: 1 + 7 + 4 = 12.

CARRY THE ONE TO THE LEFT, BUT NOTHING IS BELOW SO LET IT FALL.

$$\begin{array}{r} 1 \\ 76 \\ + 48 \\ \hline 124 \end{array}$$

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|---|---|---|---|
| 1. $\begin{array}{r} 69 \\ + 56 \\ \hline 125 \end{array}$ | 2. $\begin{array}{r} 85 \\ + 65 \\ \hline 150 \end{array}$ | 3. $\begin{array}{r} 61 \\ + 28 \\ \hline 89 \end{array}$ | 4. $\begin{array}{r} 57 \\ + 94 \\ \hline 151 \end{array}$ |
| 5. $\begin{array}{r} 99 \\ + 99 \\ \hline 198 \end{array}$ | 6. $\begin{array}{r} 72 \\ + 87 \\ \hline 159 \end{array}$ | 7. $\begin{array}{r} 89 \\ + 33 \\ \hline 122 \end{array}$ | 8. $\begin{array}{r} 55 \\ + 42 \\ \hline 97 \end{array}$ |
| 9. $\begin{array}{r} 31 \\ + 49 \\ \hline 80 \end{array}$ | 10. $\begin{array}{r} 44 \\ + 96 \\ \hline 140 \end{array}$ | 11. $\begin{array}{r} 37 \\ + 73 \\ \hline 110 \end{array}$ | 12. $\begin{array}{r} 52 \\ + 56 \\ \hline 108 \end{array}$ |
| 13. $\begin{array}{r} 89 \\ + 78 \\ \hline 167 \end{array}$ | 14. $\begin{array}{r} 40 \\ + 69 \\ \hline 109 \end{array}$ | 15. $\begin{array}{r} 35 \\ + 81 \\ \hline 116 \end{array}$ | 16. $\begin{array}{r} 76 \\ + 8 \\ \hline 84 \end{array}$ |
| 17. $\begin{array}{r} 23 \\ + 79 \\ \hline 102 \end{array}$ | 18. $\begin{array}{r} 49 \\ + 51 \\ \hline 100 \end{array}$ | 19. $\begin{array}{r} 66 \\ + 37 \\ \hline 103 \end{array}$ | 20. $\begin{array}{r} 87 \\ + 18 \\ \hline 105 \end{array}$ |

BE CAREFUL ON THE LAST 4 PROBLEMS.

DO YOU SEE WHAT HAPPENS WHEN YOU CARRY THE FIRST DIGIT?