

TRANSFORMING ADDITION - HELP

ANSWERS - PAGE 1

SO POE, HAVE YOU NOTICED WHEN YOU'RE ADDING THAT THE ORDER DOES NOT MATTER?

HUH, YOU KNOW, I NEVER THOUGHT ABOUT IT. I WAS JUST ADDING.

WELL, IT'S ACTUALLY VERY HELPFUL, ESPECIALLY RIGHT NOW SINCE WE'RE JUST LEARNING TO ADD. IT CAN HELP US MEMORIZE THE BASIC ADDITION FACTS.

MAX, MAYBE YOU SHOULD SHOW US AN EXAMPLE OF WHAT YOU MEAN.

CHECK OUT THESE TWO PROBLEMS. IF YOU USE LINES TO COUNT, YOU CAN CLEARLY SEE THAT THEY EQUAL THE SAME ANSWER.

THAT'S SO COOL. IF I KNOW THAT $3 + 1 = 4$, THEN I KNOW $1 + 3 = 4$ TOO.

SO ORDER DOES NOT MATTER WHEN YOU'RE ADDING!

EXACTLY, AND THIS CAN SAVE US A LOT OF TIME. YOU CAN ACTUALLY MOVE THE NUMBERS AROUND WHEN YOU'RE ONLY ADDING.

GIVE THESE PROBLEMS A TRY.

IF YOU LEARN THE BASICS, ANYTHING'S POSSIBLE.

1. $5 + 6 = 11$ 2. $3 + 7 = 10$
 $6 + 5 = 11$ $7 + 3 = 10$

3. $3 + 2 = 5$ 4. $9 + 4 = 13$
 $2 + 3 = 5$ $4 + 9 = 13$

5. $4 + 7 = 11$ 6. $8 + 5 = 13$
 $7 + 4 = 11$ $5 + 8 = 13$

TRANSFORMING ADDITION PRACTICE - A

ANSWERS - PAGE 2

WHEN THE SAME NUMBERS ARE USED IN TWO DIFFERENT ADDITION PROBLEMS YOU CAN CALL THEM A FAMILY.

I GET IT. THEY ARE THE SAME SO YOU CAN SAY THEY ARE RELATED.

I THINK MY FAMILY IS MORE STRANGE THEN THE SAME.

SOMETIMES I THINK I WAS ADOPTED.

SEE $3 + 4 = 4 + 3$, WHICH BOTH EQUAL 7.

THEY'RE A FAMILY.

1. $7 + 8 = 15$ 2. $1 + 5 = 6$ 3. $0 + 9 = 9$
 $8 + 7 = 15$ $5 + 1 = 6$ $9 + 0 = 9$

4. $3 + 5 = 8$ 5. $2 + 8 = 10$ 6. $6 + 4 = 10$
 $5 + 3 = 8$ $8 + 2 = 10$ $4 + 6 = 10$

7. $1 + 6 = 7$ 8. $5 + 4 = 9$ 9. $9 + 8 = 17$
 $6 + 1 = 7$ $4 + 5 = 9$ $8 + 9 = 17$

10. $4 + 7 = 11$ 11. $8 + 1 = 9$ 12. $3 + 2 = 5$
 $7 + 4 = 11$ $1 + 8 = 9$ $2 + 3 = 5$

13. $0 + 6 = 6$ 14. $1 + 4 = 5$ 15. $4 + 3 = 7$
 $6 + 0 = 6$ $4 + 1 = 5$ $3 + 4 = 7$

16. $3 + 7 = 10$ 17. $5 + 6 = 11$ 18. $3 + 9 = 12$
 $7 + 3 = 10$ $6 + 5 = 11$ $9 + 3 = 12$

19. $8 + 6 = 14$ 20. $7 + 2 = 9$ 21. $9 + 5 = 14$
 $6 + 8 = 14$ $2 + 7 = 9$ $5 + 9 = 14$

TRANSFORMING ADDITION PRACTICE - B

ANSWERS - PAGE 3

ON THE PROBLEMS BELOW, FIRST ANSWER THEM, AND THEN CONNECT A LINE TO EACH FAMILY. THERE ARE FOUR DIFFERENT SECTIONS.

HELPFUL EXAMPLE
 $5 + 6 = 11$ $3 + 4 = 7$
 $2 + 6 = 8$ $6 + 5 = 11$
 $4 + 3 = 7$ $6 + 2 = 8$

ANSWER PROBLEMS, CONNECT LINE TO EACH FAMILY.

ANSWER PROBLEMS, CONNECT LINE TO EACH FAMILY.

ANSWER PROBLEMS, CONNECT LINE TO EACH FAMILY.

ANSWER PROBLEMS, CONNECT LINE TO EACH FAMILY.

TRANSFORMING ADDITION PRACTICE - C

ANSWERS - PAGE 4

1. $3 + 4 = 7$ 2. $0 + 8 = 8$ 3. $9 + 3 = 12$
 4. $5 + 2 = 7$ 5. $9 + 4 = 13$ 6. $7 + 9 = 16$
 7. $6 + 4 = 10$ 8. $6 + 2 = 8$ 9. $2 + 2 = 4$
 10. $7 + 9 = 16$ 11. $7 + 6 = 13$ 12. $3 + 4 = 7$
 13. $1 + 3 = 4$ 14. $4 + 0 = 4$ 15. $1 + 6 = 7$
 16. $4 + 4 = 8$ 17. $1 + 8 = 9$ 18. $3 + 7 = 10$
 19. $8 + 6 = 14$ 20. $2 + 4 = 6$ 21. $4 + 4 = 8$
 22. $9 + 7 = 16$ 23. $8 + 3 = 11$ 24. $7 + 8 = 15$
 25. $3 + 8 = 11$ 26. $9 + 9 = 18$ 27. $8 + 7 = 15$
 28. $4 + 2 = 6$ 29. $5 + 5 = 10$ 30. $9 + 4 = 13$
 31. $2 + 5 = 7$ 32. $4 + 8 = 12$ 33. $2 + 1 = 3$
 34. $7 + 3 = 10$ 35. $7 + 4 = 11$ 36. $5 + 7 = 12$
 37. $9 + 8 = 17$ 38. $5 + 9 = 14$ 39. $7 + 5 = 12$
 40. $3 + 7 = 10$ 41. $9 + 7 = 16$ 42. $6 + 2 = 8$
 43. $5 + 4 = 9$ 44. $6 + 1 = 7$ 45. $1 + 5 = 6$
 46. $6 + 0 = 6$ 47. $0 + 5 = 5$ 48. $0 + 8 = 8$
 49. $7 + 7 = 14$ 50. $2 + 8 = 10$ 51. $4 + 0 = 4$
 52. $1 + 2 = 3$ 53. $5 + 5 = 10$ 54. $5 + 6 = 11$
 55. $0 + 5 = 5$ 56. $6 + 4 = 10$ 57. $2 + 4 = 6$
 58. $4 + 1 = 5$ 59. $5 + 9 = 14$ 60. $1 + 2 = 3$
 61. $8 + 3 = 11$ 62. $6 + 3 = 9$ 63. $4 + 0 = 4$
 64. $0 + 4 = 4$ 65. $2 + 2 = 4$ 66. $7 + 9 = 16$
 67. $2 + 2 = 4$ 68. $6 + 6 = 12$ 69. $3 + 6 = 9$
 70. $5 + 9 = 14$ 71. $1 + 5 = 6$ 72. $9 + 5 = 14$
 73. $1 + 0 = 1$ 74. $8 + 2 = 10$ 75. $8 + 4 = 12$
 76. $6 + 2 = 8$ 77. $5 + 4 = 9$ 78. $5 + 7 = 12$
 79. $3 + 3 = 6$ 80. $9 + 6 = 15$ 81. $4 + 3 = 7$
 82. $8 + 4 = 12$ 83. $7 + 7 = 14$ 84. $3 + 8 = 11$
 85. $4 + 8 = 12$ 86. $8 + 0 = 8$ 87. $2 + 1 = 3$
 88. $5 + 9 = 14$ 89. $1 + 1 = 2$ 90. $6 + 9 = 15$
 91. $0 + 7 = 7$ 92. $0 + 3 = 3$ 93. $7 + 1 = 8$
 94. $2 + 5 = 7$ 95. $6 + 5 = 11$ 96. $8 + 6 = 14$
 97. $1 + 4 = 5$ 98. $4 + 7 = 11$ 99. $3 + 3 = 6$