

# Making Numbers as Sums of 1, 2, 4, and 8

NCTM Standards 1, 2, 6, 7, 8, 9, 10

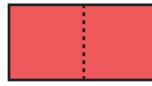
What number does each rod show?

1.



\_\_\_\_\_

2.



\_\_\_\_\_

3.



\_\_\_\_\_

4.



\_\_\_\_\_

What number sentence does each train show?

5.



$$\underline{2} + \underline{4} = \underline{\quad}$$

6.



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

7.



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

8.



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



**NOTE:** Your child is learning to combine the numbers 1, 2, 4, and 8 to make larger numbers. Ask your child to find a way to make 5 using these numbers.

What number sentence does each train show?



$$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$




$$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

 13. What other number can you make with 3 rods? Explain.

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### Challenge

Use the numbers 1, 2, 4, 8, and 16 to complete the number sentences.

14.  $\underline{\quad} + \underline{\quad} = 17$

15.  $\underline{\quad} + \underline{\quad} = 18$

16.  $\underline{\quad} + \underline{\quad} + \underline{\quad} = 19$

17.  $\underline{\quad} + \underline{\quad} = 20$