

# Special Quotients

There are special rules for dividing numbers by 1 and by 0.

Rule: A number divided by 1 is that number.

Examples:  $4 \div 1 = 4$                        $55 \div 1 = 55$

Rule: A number divided by itself (except 0) is 1.

Examples:  $17 \div 17 = 1$                        $135 \div 135 = 1$

Rule: Zero divided by a number (except 0) is 0.

Examples:  $0 \div 4 = 0$                        $0 \div 15 = 0$

Rule: You cannot divide a number by zero.

Examples:  $7 \div 0$  cannot be done               $12 \div 0$  cannot be done

1.  $0 \div 2 =$  \_\_\_\_\_

2.  $4 \div 4 =$  \_\_\_\_\_

3.  $0 \div 7 =$  \_\_\_\_\_

4.  $9 \div 9 =$  \_\_\_\_\_

5.  $0 \div 3 =$  \_\_\_\_\_

6.  $10 \div 10 =$  \_\_\_\_\_

7.  $0 \div 11 =$  \_\_\_\_\_

8.  $11 \div 1 =$  \_\_\_\_\_

Compare. Use  $>$ ,  $<$ , or  $=$  for each  $\bigcirc$ .

9.  $6 \div 6 \bigcirc 3 \div 3$

10.  $7 \div 1 \bigcirc 8 \div 8$

11.  $0 \div 5 \bigcirc 3 \div 1$

12.  $0 \div 4 \bigcirc 0 \div 9$

13.  $5 \div 5 \bigcirc 0 \div 5$

14.  $7 \div 7 \bigcirc 9 \div 9$

15.  $8 \div 1 \bigcirc 0 \div 8$

16.  $9 \div 9 \bigcirc 9 \div 1$

17.  $0 \div 12 \bigcirc 12 \div 1$

18.  $0 \div 11 \bigcirc 0 \div 15$

19. **Number Sense** If  $a \div 4 = 0$ , what do you know about  $a$ ? \_\_\_\_\_