

1/6/17

Name _____

Number Puzzles

$$\begin{array}{r} 20 \\ 20 \end{array}$$

$$\begin{array}{r} \times 7 \\ -4 \overline{) 28} \\ 28 \\ \hline 0 \end{array}$$

Work backward. Find each person's number.

- Molly: If you multiply my number by -4 and subtract 20, the result is 8. -7
- Bruce: ^{too} If you add 3 to my number, divide by 4 and then multiply by -1 , the result is -2 . 5
 $-1 \times -2 = 2 \times 4 = 8 - 3 = 5$
- Walter: ^{write} If you multiply my number by -3 , divide the result by 2 and add -4 , the result is 2. -4
 $2 + 4 = 6 \times 2 = 12 \div 3 = 4$
- Amy: If you divide my number by -5 and subtract 2, the result is -4 . 10
 $-4 + 2 = -2$
 $-2 \times -5 = 10$
- John: ^{ce na} If my number is multiplied by 2 and divided by 3, the result is the opposite ¹⁰ of 4. -6
 $-4 \times 3 = -12 \div 2 = -6$
- Leslie: If you multiply the opposite of my number by 6 and divide the result by 3 you get -6 . 3
 $-6 \times 3 = -18 \div 6 = -3$
- Jason: ^{bow me} If you double my number, add 2, divide by 20 and add -1 , the result is 0. 44
 $0 + 1 = -1 \times 20 = -20 + 2 = -18$
- Barbara: If you multiply my number by -3 , subtract 4 and divide by -5 , the result is 5. 7
 $5 \times -5 = -25 + 4 = -21 \div -3 = 7$
- Susan: If you take the opposite of my number and multiply it by -5 , the result divided by -8 is 5. -8
 $5 \times -8 = -40 \div -5 = 8$
- Wayne: ^{the sock Johnson} My number multiplied by 6 and added to -4 is equal to -8×5 . -6

Write some number problems of your own. Challenge classmates to find your number.

