Name ___

Zeros in the Quotient



Find 816 \div 4.

Step 1: Compare the	Step 2: Compare.	Step 3: Compare.	Step 4: Check by
first digit of the dividend	1 < 4	16 > 4	multiplying.
with the divisor. $8 > 4$, so the first digit in the quotient will go in the hundreds place.	You cannot divide the tens, so place 0 in the tens place of the quotient.	Divide the ones. Think $4 \times ? = 16$. Write 4 in the ones place of the quotient.	4 × 204 = 816
Think $4 \times ? = 8$.	Bring down the ones.	Multiply. $4 \times 4 = 16$	
Write 2 in the hundreds place of the quotient. Multiply. $4 \times 2 = 8$	$\begin{array}{r} 2 \ 0 \\ 4 \overline{\smash{\big)}8 \ 1 \ 6} \\ \underline{-8 \ \downarrow} \\ 0 \ 1 \ 6} \end{array}$	Subtract. $16 - 16 = 0$ Compare. $0 < 4$	
2		There are no more digits	
4)81		to bring down, so the	
<u>-8 4</u>		problem is done.	
0 1		204	
Subtract. $8 - 8 = 0$		4)816	
Compare. 0 < 4		<u>-8</u> 016	
Bring down the tens.		<u> </u>	

Find each quotient. Check your answers by multiplying.

1. 8)640	2. 3)322	3. 4)908
4. 15)225	5. 6)624	6. 6)965

7. Is $593 \div 6$ a little less than 10, a little more than 10, a little less than 100, or a little more than 100? Explain.

R 4•6

Na	me			- 1	Practice		
Ze	eros in [·]	l	4-6				
Find	d each quotier	nt. Check your answ	ers by multiplying.				
1.	490 ÷ 7 =		2. 326 ÷ 3 =				
3.	916 ÷ 3 =		4. 720 ÷ 2 =				
5.	2)941	6. 9)982	7. 7)740		8. 5)703		
 9. If there are 505 seats in an auditorium divided equally into 5 sections, how many seats are in each section? 10. A book company publishes 749 copies of a novel and distributes them to 7 bookstores. If each bookstore were to receive the same number of copies, how many copies would 							
11.	In one year, Dolores and Tom's four children saved \$420 by recycling cans. When they divided the money equally, how much money did each child receive?						
	A \$50	B \$100	C \$105	D	\$1,500		
12.	Writing To E	xplain Explain why e first digit in the quo	estimating before y otient.	ou divid	de 624 ÷ 6 helps		