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## Zeros in the Quotient

Find $816 \div 4$.

Step 1: Compare the first digit of the dividend with the divisor. $8>4$, so the first digit in the quotient will go in the hundreds place.

Divide the hundreds.
Think $4 \times ?=8$.
Write 2 in the hundreds place of the quotient. Multiply. $4 \times 2=8$

$$
\begin{array}{r}
2 \\
4 \longdiv { 8 1 } \\
-8 \downarrow \\
\hline 01
\end{array}
$$

Subtract. $8-8=0$
Compare. $0<4$
Bring down the tens.

Step 2: Compare.
$1<4$

You cannot divide the tens, so place 0 in the tens place of the quotient.

Bring down the ones.

$$
\begin{array}{r}
20 \\
4 \longdiv { 8 1 6 } \\
-8 \quad \downarrow \\
\hline 016
\end{array}
$$

Step 3: Compare.
$16>4$

Divide the ones. Think $4 \times ?=16$.

Write 4 in the ones place of the quotient.

Multiply. $4 \times 4=16$

Subtract. $16-16=0$
Compare. $0<4$
There are no more digits to bring down, so the problem is done.

| 204 |
| ---: |
| $4 \longdiv { 8 1 6 }$ |
| -8 |
| 016 |
| -16 |
| 0 |

Step 4: Check by multiplying.
$4 \times 204=816$

Find each quotient. Check your answers by multiplying.

1. $8 \longdiv { 6 4 0 }$
2. $3 \longdiv { 3 2 2 }$
3. $4 \longdiv { 9 0 8 }$
4. $1 5 \longdiv { 2 2 5 }$
5. $6 \longdiv { 6 2 4 }$
6. $6 \longdiv { 9 6 5 }$
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.
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## Zeros in the Quotient

Find each quotient. Check your answers by multiplying.

1. $490 \div 7=$ $\qquad$ 2. $326 \div 3=$
2. $916 \div 3=$ $\qquad$ 4. $720 \div 2=$
3. $2 \longdiv { 9 4 1 }$
4. $9 \longdiv { 9 8 2 }$
5. $7 \longdiv { 7 4 0 }$
6. $5 \longdiv { 7 0 3 }$
7. If there are 505 seats in an auditorium divided equally into 5 sections, how many seats are in each section?
8. 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 be sent to each store?
9. 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 $\$ 1,500$
10. Writing To Explain Explain why estimating before you divide $624 \div 6$ helps you place the first digit in the quotient.
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