

Dividing by Multiples of 10

Find $623 \div 40$.

Step 1: Estimate the quotient using compatible numbers, $600 \div 40 = 15$. Then, divide the tens.

$$\begin{array}{r} 1 \\ 40 \overline{)623} \\ \underline{-40} \\ 22 \end{array}$$

Divide $62 \div 40$
 Multiply $1 \times 40 = 40$
 Subtract $62 - 40 = 22$
 Compare $22 < 40$

Step 2: Bring down the ones. Then, divide the ones.

$$\begin{array}{r} 15 \\ 40 \overline{)623} \\ \underline{-40} \downarrow \\ 223 \\ \underline{-200} \\ 23 \end{array}$$

Divide $223 \div 40$
 Multiply $5 \times 40 = 200$
 Subtract $223 - 200 = 23$

Step 3: Since $23 < 40$, write 23 as the remainder in the quotient.

$$\begin{array}{r} 15 \text{ R}23 \\ 40 \overline{)623} \\ \underline{-40} \downarrow \\ 223 \\ \underline{-200} \\ 23 \end{array}$$

Compare $23 < 40$

Complete.

1. $60 \overline{)288}$

2. $20 \overline{)455}$

3. $80 \overline{)7,667}$

4. $30 \overline{)233}$

5. $50 \overline{)1,358}$

6. Celia plans to pack her books in boxes when her family moves. Each box will hold 20 books. Celia has 97 books. How many boxes will she need to pack all her books?
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