

## Estimating Division

2DD 1

**Instructions:** For each problem, use round numbers to estimate how many times the first number will divide into the second number. You can round each number to different a place value (ones, tens, hundreds) if it seems like it will make it easier to estimate. The first 3 have been done as examples.

Note: Answers may vary. When grading, because these are just estimates, the answers are not really right or wrong, but just closer to or farther from the estimate we made.

**1** 12 into 63  
 ↓ ↓  
 10 60  
 Estimate: **6**  
 5 or 7 would also be reasonable estimates

**2** 23 into 47  
 ↓ ↓  
 25 50  
 Estimate: **2**  
 1 or 3 would also be reasonable estimates

**3** 46 into 186  
 ↓ ↓  
 50 200  
 Estimate: **4**  
 3 or 5 would also be reasonable estimates

**4** 18 into 39  
 ↓ ↓  
 20 40  
 Estimate: **2**  
 1 or 3 would also be reasonable estimates

**5** 43 into 115  
 ↓ ↓  
 40 120  
 Estimate: **3**  
 2 or 4 would also be reasonable estimates

**6** 33 into 146  
 ↓ ↓  
 30 150  
 Estimate: **5**  
 4 or 6 would also be reasonable estimates

**7** 31 into 89  
 ↓ ↓  
 30 90  
 Estimate: **3**  
 2 or 4 would also be reasonable estimates

**8** 16 into 58  
 ↓ ↓  
 15 60  
 Estimate: **4**  
 3 or 5 would also be reasonable estimates

**9** 17 into 174  
 ↓ ↓  
 17 170  
 Estimate: **10**  
 9 or 11 would also be reasonable estimates

**10** 83 into 235  
 ↓ ↓  
 80 240  
 Estimate: **3**  
 2 or 4 would also be reasonable estimates

**11** 11 into 79  
 ↓ ↓  
 10 80  
 Estimate: **8**  
 7 or 9 would also be reasonable estimates

**12** 26 into 177  
 ↓ ↓  
 25 175  
 Estimate: **7**  
 6 or 8 would also be reasonable estimates

## 2-Digit Divisor Practice (Set 1)

2DD 2

**Instructions:** Divide. Follow the procedure you learned from the video. Remember, it's helpful to use estimating and some trial-and-error to figure out each division step.

$$\begin{array}{r} 53 \\ 10 \overline{)530} \\ \underline{-50} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

$$\begin{array}{r} 32 \\ 20 \overline{)640} \\ \underline{-60} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

$$\begin{array}{r} 201 \\ 15 \overline{)3,015} \\ \underline{-30} \\ 015 \\ \underline{-15} \\ 0 \end{array}$$

$$\begin{array}{r} 122 \\ 14 \overline{)1,708} \\ \underline{-14} \\ 30 \\ \underline{-28} \\ 28 \\ \underline{-28} \\ 0 \end{array}$$

$$\begin{array}{r} 309 \\ 12 \overline{)3,708} \\ \underline{-36} \\ 108 \\ \underline{-108} \\ 0 \end{array}$$

$$\begin{array}{r} 431 \\ 19 \overline{)8,189} \\ \underline{-76} \\ 58 \\ \underline{-57} \\ 19 \\ \underline{-19} \\ 0 \end{array}$$

$$\begin{array}{r} 3 \\ 19 \\ \times 4 \\ \hline 76 \end{array}$$

$$\begin{array}{r} 2 \\ 19 \\ \times 3 \\ \hline 57 \end{array}$$

## 2-Digit Divisor Practice (Set 2)

2DD 3

**Instructions:** Divide. Follow the procedure you learned from the video. Remember, it's helpful to use estimating and some trial-and-error to figure out each division step.

$$\begin{array}{r} 46 \\ 14 \overline{)644} \\ \underline{-56} \\ 84 \\ \underline{-84} \\ 0 \end{array}$$

$$\begin{array}{r} 15 \\ 21 \overline{)315} \\ \underline{-21} \\ 105 \\ \underline{-105} \\ 0 \end{array}$$

$$\begin{array}{r} 130 \\ 25 \overline{)3,250} \\ \underline{-25} \\ 75 \\ \underline{-75} \\ 00 \end{array}$$

$$\begin{array}{r} 256 \\ 32 \overline{)8,192} \\ \underline{-64} \\ 179 \\ \underline{-160} \\ 192 \\ \underline{-192} \\ 0 \end{array}$$

$$\begin{array}{r} 1 \\ 32 \\ \times 5 \\ \hline 160 \end{array}$$

$$\begin{array}{r} 1 \\ 32 \\ \times 6 \\ \hline 192 \end{array}$$

$$\begin{array}{r} 91 \\ 13 \overline{)1,183} \\ \underline{-117} \\ 13 \\ \underline{-13} \\ 0 \end{array}$$

$$\begin{array}{r} 2 \\ 13 \\ \times 9 \\ \hline 117 \end{array}$$

$$\begin{array}{r} 234 \\ 21 \overline{)4,914} \\ \underline{-42} \\ 71 \\ \underline{-63} \\ 84 \\ \underline{-84} \\ 0 \end{array}$$

## Really Long 2-Digit Divisor Practice (Set 1)

2DD 4

**Instructions:** Divide. Follow the procedure you learned from the video. Remember, it's helpful to use estimating and some trial-and-error to figure out each division step.

$$\begin{array}{r}
 3,652 \\
 12 \overline{)43,824} \\
 \underline{-36} \phantom{00} \\
 78 \phantom{00} \\
 \underline{-72} \phantom{00} \\
 62 \phantom{00} \\
 \underline{-60} \phantom{00} \\
 24 \phantom{00} \\
 \underline{-24} \\
 0
 \end{array}$$

$$\begin{array}{r}
 1,432 \\
 23 \overline{)32,936} \\
 \underline{-23} \phantom{00} \\
 99 \phantom{00} \\
 \underline{-92} \phantom{00} \\
 73 \phantom{00} \\
 \underline{-69} \phantom{00} \\
 46 \phantom{00} \\
 \underline{-46} \\
 0
 \end{array}$$

$$\begin{array}{r}
 634 \\
 50 \overline{)31,700} \\
 \underline{-300} \phantom{00} \\
 170 \phantom{00} \\
 \underline{-150} \phantom{00} \\
 200 \phantom{00} \\
 \underline{-200} \\
 0
 \end{array}$$

$$\begin{array}{r}
 12,043 \\
 75 \overline{)903,225} \\
 \underline{-75} \phantom{00} \\
 153 \phantom{00} \\
 \underline{-150} \phantom{00} \\
 322 \phantom{00} \\
 \underline{-300} \phantom{00} \\
 225 \phantom{00} \\
 \underline{-225} \\
 0
 \end{array}$$

## Really Long 2-Digit Divisor Practice (Set 2)

2DD 5

**Instructions:** Divide. Follow the procedure you learned from the video. Remember, it's helpful to use estimating and some trial-and-error to figure out each division step.

$$\begin{array}{r}
 3,145 \\
 1 \quad 30 \overline{)94,350} \\
 \underline{-90} \phantom{00} \\
 43 \phantom{00} \\
 \underline{-30} \phantom{00} \\
 135 \phantom{00} \\
 \underline{-120} \phantom{00} \\
 150 \phantom{00} \\
 \underline{-150} \phantom{00} \\
 0
 \end{array}$$

$$\begin{array}{r}
 2,433 \\
 2 \quad 18 \overline{)43,794} \\
 \underline{-36} \phantom{00} \\
 77 \phantom{00} \\
 \underline{-72} \phantom{00} \\
 59 \phantom{00} \\
 \underline{-54} \phantom{00} \\
 54 \phantom{00} \\
 \underline{-54} \phantom{00} \\
 0
 \end{array}
 \quad
 \begin{array}{r}
 3 \\
 18 \\
 \times 4 \\
 \hline
 72 \\
 \\
 2 \\
 18 \\
 \times 3 \\
 \hline
 54
 \end{array}$$

$$\begin{array}{r}
 45,028 \\
 3 \quad 15 \overline{)675,420} \\
 \underline{-60} \phantom{00} \\
 75 \phantom{00} \\
 \underline{-75} \phantom{00} \\
 042 \phantom{00} \\
 \underline{-30} \phantom{00} \\
 120 \phantom{00} \\
 \underline{-120} \phantom{00} \\
 0
 \end{array}
 \quad
 \begin{array}{r}
 4 \\
 15 \\
 \times 8 \\
 \hline
 120
 \end{array}$$

$$\begin{array}{r}
 2,357 \\
 4 \quad 80 \overline{)188,560} \\
 \underline{-160} \phantom{00} \\
 285 \phantom{00} \\
 \underline{-240} \phantom{00} \\
 456 \phantom{00} \\
 \underline{-400} \phantom{00} \\
 560 \phantom{00} \\
 \underline{-560} \phantom{00} \\
 0
 \end{array}$$