

Lesson 5.8 Dividing 3 Digits

Since $100 \times 8 = 800$ and 800 is greater than 453, there is no hundreds digit.

$$8 \overline{)453}$$

\times	10	20	30	40	50	60
8	80	160	240	320	400	480

453 is between 400 and 480. $453 \div 8$ is between 50 and 60. The tens digit is 5.

$$\begin{array}{r} 5 \\ 8 \overline{)453} \\ - 40 \quad 8 \times 5 = 40 \\ \hline 53 \quad \text{Subtract.} \end{array}$$

\times	1	2	3	4	5	6	7
8	8	16	24	32	40	48	56

53 is between 48 and 56. $53 \div 8$ is between 6 and 7. The ones digit is 6.

$$\begin{array}{r} 56r5 \\ 8 \overline{)453} \\ - 40 \quad 8 \times 6 = 48 \\ \hline 53 \quad \text{Subtract.} \\ - 48 \quad \text{remainder} \\ \hline 5 \end{array}$$

Divide.

a

b

c

d

e

1. $8 \overline{)720}$

$4 \overline{)327}$

$9 \overline{)372}$

$4 \overline{)173}$

$2 \overline{)150}$

2. $6 \overline{)552}$

$3 \overline{)139}$

$4 \overline{)248}$

$9 \overline{)890}$

$5 \overline{)105}$

3. $9 \overline{)780}$

$5 \overline{)225}$

$9 \overline{)813}$

$7 \overline{)511}$

$3 \overline{)110}$