

Homework & Practice 5-9

Continue to Divide with 1-Digit Numbers

Another Look!



Use the same steps for dividing a 4-digit number that you used for dividing 3-digit numbers.

Find $5,490 \div 6$.

Estimate first. You can use compatible numbers to divide mentally.

54 is a multiple of 6.

5,400 is close to 5,490, and $5,400 \div 6$ is easy to divide.

$$5,400 \div 6 = 900$$

Divide to find the actual quotient.

$$\begin{array}{r} 915 \\ 6 \overline{)5,490} \\ \underline{-54} \\ 09 \\ \underline{-6} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

Compare. Is the estimate close to the quotient?

The estimate of 900 is close to the actual quotient of 915, so the answer is reasonable.

For **1–8**, estimate first. Then find each quotient.

1. Divide $4,318 \div 7$.

Estimate: _____ \div _____ = _____

$$4,318 \div 7 = \underline{\hspace{2cm}}$$

2. Divide $4,826 \div 5$.

Estimate: _____ \div _____ = _____

$$4,826 \div 5 = \underline{\hspace{2cm}}$$

3. $8 \overline{)4,377}$

4. $9 \overline{)7,192}$

5. $6 \overline{)2,750}$

6. $4 \overline{)6,208}$

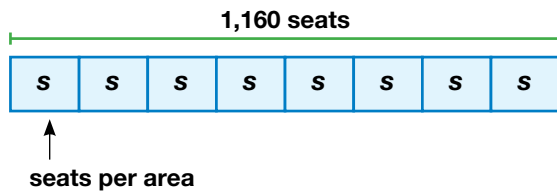
7. $7 \overline{)2,025}$

8. $5 \overline{)9,490}$

9. **Math and Science** Sound travels in waves. In dry air at 20° Celsius, sound travels about 343 meters in one second. How many meters will sound travel in 7 seconds?

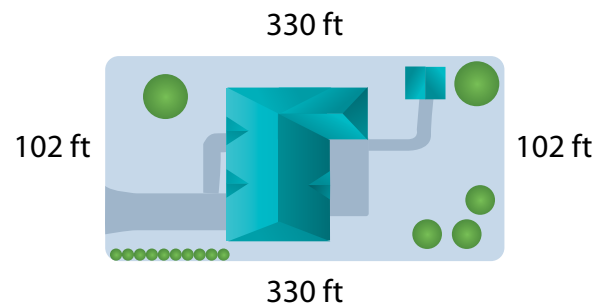
10. **MP.3 Construct Arguments** Lilly estimated a quotient of 120 and found an actual quotient of 83. What should she do next? Explain.

11. At the airport, there are a total of 1,160 seats in the waiting areas. There are 8 separate, same size, waiting areas. How many seats are in each waiting area?



12. A fence around the school football field is 1,666 feet long. Seven teams of students will paint the fence. Each team will paint an equal length of the fence. What length of the fence will each team paint?

13. **Higher Order Thinking** Mr. Conners put a fence around the outside of his rectangular yard shown at the right. He put a fence post every 6 feet. How many fence posts did he use?



Common Core Assessment

14. Use each number in the box once to complete the division.

$$\begin{array}{r}
 1, \square 41 R \square \\
 5 \overline{) 6,20 \square} \\
 \underline{- 5} \\
 1 \square \\
 \underline{- 1 \square} \\
 \square 0 \\
 \underline{- 20} \\
 06 \\
 \underline{- \square} \\
 \square
 \end{array}$$

0	1	1	2
2	2	5	6