

Homework & Practice 5-8

Divide with 1-Digit Numbers

Another Look!

Find $957 \div 3$.

Estimate: $960 \div 3 = 320$

Step 1

Divide the hundreds.

$$\begin{array}{r} 3 \\ 3 \overline{)957} \\ \underline{-9} \\ 0 \end{array}$$

9 hundreds \div 3
Each group gets 3 hundreds.
0 hundreds left.

| |
|-----|
| 3 H |
| 3 H |
| 3 H |

Step 2

Divide the tens.

$$\begin{array}{r} 31 \\ 3 \overline{)957} \\ \underline{-9} \\ 05 \\ \underline{-3} \\ 2 \end{array}$$

5 tens \div 3
Each group gets 1 ten.
2 tens are left.
Unbundle 2 tens.
20 ones + 7 ones = 27 ones

| |
|-----------|
| 3 H + 1 T |
| 3 H + 1 T |
| 3 H + 1 T |

Step 3

Divide the ones.

$$\begin{array}{r} 319 \\ 3 \overline{)957} \\ \underline{-9} \\ 05 \\ \underline{-3} \\ 27 \\ \underline{-27} \\ 0 \end{array}$$

27 ones \div 3
Each group gets 9 ones.

| |
|---------------|
| 3 H + 1 T + 9 |
| 3 H + 1 T + 9 |
| 3 H + 1 T + 9 |

$957 \div 3 = 319$.

319 is close to the estimate of 320.

The answer is reasonable.

For 1–8, find each quotient.

1.
$$\begin{array}{r} 83R \\ 4 \overline{)334} \\ \underline{-} \\ \\ \underline{-12} \\ \end{array}$$

2.
$$\begin{array}{r} R4 \\ 6 \overline{)148} \\ \underline{-} \\ \\ \underline{-4} \\ \end{array}$$

3.
$$\begin{array}{r} 3R3 \\ 7 \overline{)948} \\ \underline{-} \\ \\ \underline{-} \\ \\ \underline{-} \\ \end{array}$$

4.
$$\begin{array}{r} 4R3 \\ 4 \overline{)179} \\ \underline{-} \\ \\ \underline{-} \\ \end{array}$$

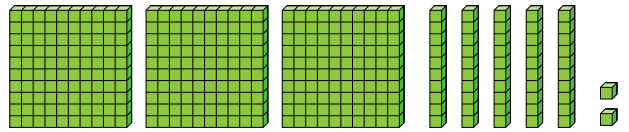
5. $5 \overline{)125}$

6. $8 \overline{)418}$

7. $2 \overline{)587}$

8. $8 \overline{)747}$

9. © **MP.2 Reasoning** Using hundreds, tens, and ones, what are three different ways the number 352 can be represented other than the way shown at the right?



10. A toy store received a shipment of 17 cases of teddy bears. Use compatible numbers to estimate the total number of teddy bears in the shipment.



11. How many bears are in the shipment?

12. **Algebra** What is the unknown number in the equation?

$$5 \times n = 3,000$$

13. **Higher Order Thinking** Tammy invited 144 guests to her wedding. Tammy is renting tables that seat 8 guests at each table. If each table costs \$5 to rent, how much will Tammy spend to rent the tables?

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14. There are 144 fourth-graders at Central School. In each of the 6 classes, the number of girls is equal to the number of boys. How many girls are in each class?
- (A) 9 girls
 - (B) 11 girls
 - (C) 12 girls
 - (D) 24 girls
15. Celia has 83 beads. She makes bracelets using 6 beads for each bracelet. How many beads does Celia have left over?
- (A) 13 beads
 - (B) 5 beads
 - (C) 3 beads
 - (D) 0 beads