

Dividing with 1-Digit Divisors

RETEACHING

Topic 4 Reteaching

Set A, pages 84–85

Find $48,000 \div 6$.

Identify a basic fact. $48 \div 6 = 8$

Look for a pattern. $480 \div 6 = 80$
 $4,800 \div 6 = 800$
 $48,000 \div 6 = 8,000$

Remember to use basic facts and patterns to divide mentally.

- | | |
|------------------------------------|------------------------------------|
| 1. $810 \div 9$
90 | 2. $360 \div 6$
60 |
| 3. $2,400 \div 6$
400 | 4. $4,500 \div 9$
500 |
| 5. $64,000 \div 8$
8,000 | 6. $42,000 \div 7$
6,000 |

Set B, pages 86–87

Estimate $330 \div 8$.

Think of a number close to 33 that is a multiple of 8, so a basic fact can be used. Then divide.

$32 \div 8 = 4$
 $320 \div 8 = 40$

So, $330 \div 8$ is about 40.

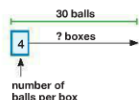
Remember to use rounding or compatible numbers when estimating quotients.

Estimate.

- | | |
|------------------------------------|------------------------------------|
| 1. $410 \div 6$
70 | 2. $653 \div 8$
80 |
| 3. $8,243 \div 9$
900 | 4. $14,368 \div 5$
3,000 |
| 5. $26,952 \div 7$
4,000 | 6. $22,487 \div 3$
7,000 |

Set C, pages 88–89

A company ships 4 basketballs in a box. How many boxes will be needed to ship 30 balls?



Calculate the division.

$$\begin{array}{r} 7 \text{ R}2 \\ 4 \overline{)30} \\ \underline{-28} \\ 2 \end{array}$$

Seven boxes will be completely filled, but another box is needed to hold the remainder of 2 balls.

It is reasonable to say that 8 boxes are needed to ship 30 balls.

Remember you need to check the reasonableness of a solution by interpreting a remainder of a division problem.

Solve.

- Sarah's DVD collection is stored in a cabinet that holds 6 DVDs on each shelf. How many shelves will she need to hold her collection of 89 DVDs? **15 shelves**
- There are 135 fifth-grade students in a certain school. Each table in the lunchroom seats six students. How many tables are needed to seat all fifth graders? **23 tables**
- A large group of people are going to the baseball game. If 97 people are going, and each bus holds 32 people, how many buses will need to be ordered? **4 buses**

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Set D, pages 90–92

Tell how much each person will get if 4 people share \$212 equally.

What You Think

Exchange the two \$100 bills for twenty \$10 bills. Each person gets five \$10 bills. Exchange the one \$10 bill and two \$1 bills for twelve \$1 bills. Divide the twelve \$1 bills by 4. $12 \div 4 = \$3$.

What You Write

$$\begin{array}{r} \$53 \\ 4 \overline{)212} \\ \underline{-20} \\ 12 \\ \underline{-12} \\ 0 \end{array}$$

Each person will get \$53.

Remember to regroup when necessary.

Use play money to divide. Tell how much each person will get.

- 6 people share \$240 equally **\$40**
- 5 people share \$510 equally **\$102**
- 3 people share \$252 equally **\$84**
- 6 people share \$336 equally **\$56**
- 8 people share \$1,136 equally **\$142**
- 9 people share \$783 equally **\$87**
- 7 people share \$672 equally **\$96**
- 5 people share \$995 equally **\$199**

Set E, pages 94–96

Find $549 \div 6$.

Estimate first. $540 \div 6 = 90$.

$$\begin{array}{r} 91 \text{ R}3 \\ 6 \overline{)549} \\ \underline{-54} \\ 09 \\ \underline{-6} \\ 3 \end{array}$$

Check:

$$\begin{array}{r} 91 \\ \times 6 \\ \hline 546 \\ + 3 \\ \hline 549 \end{array}$$

The quotient 91 R3 is close to the estimate, 90.

Remember that you can check your answer by multiplying the quotient and the divisor, and then add the remainder.

Divide.

- $74 \div 5$ **14 R4**
- $89 \div 9$ **9 R8**
- $232 \div 4$ **58**
- $488 \div 8$ **61**
- $682 \div 7$ **97 R3**
- $735 \div 6$ **122 R3**
- $856 \div 4$ **214**
- $492 \div 6$ **82**