Practice   Video   Tools   Games

Another Look!

At the driving range, golfers can rent buckets of 32 golf balls. The range has a supply of 2,650 golf balls. How many buckets are needed for the balls?

Use compatible numbers to estimate 2,650 ÷ 32. You can use 2,700 ÷ 30 = 90.

$$\begin{array}{r} 82 \\ 32\overline{)2{,}650} \\ -\,2{,}560 \\ \hline 90 \\ -\,64 \\ \hline 26 \end{array}$$

80 groups of 32 = 2,560.

2 groups of 32 = 64.

26 balls left over

They can fill 82 buckets with golf balls. They need 1 more bucket for the 26 balls that are left. So the range needs 83 buckets.

83 is close to 90, so the answer is reasonable.

Leveled Practice In **1–4**, fill in the boxes.

1. $2\square\ R\square$
$42\overline{)9\ 2\ 6}$

2. $\square\square$
$38\overline{)1{,}5\ 5\ 8}$

3. $\square$
$77\overline{)6\ 9\ 3}$

4. $\square\square\square\ R\square$
$21\overline{)2{,}5\ 6\ 7}$

In **5–16**, estimate, and then find the quotient. Use your estimate to check reasonableness.

5. 462 ÷ 77

6. $44\overline{)817}$

7. $21\overline{)777}$

8. $35\overline{)280}$

9. 2,465 ÷ 29

10. 203 ÷ 29

11. 8,114 ÷ 46

12. $13\overline{)1{,}748}$

13. 6,264 ÷ 87

14. 5,578 ÷ 68

15. 9,855 ÷ 45

16. 7,308 ÷ 12

17. Make Sense and Persevere A farmer has 4,700 carrots to put in bunches of 15 carrots. He plans to sell the carrots for $5 per bunch at his farm stand. About how many bunches will the farmer make?

Is there information you don't need?

18. Higher Order Thinking You are dividing 3,972 by 41. Explain why the first digit in the quotient should be placed over the tens place of the dividend.

19. (A-Z) **Vocabulary** Write a division story problem with 53 as the divisor and 2,491 as the dividend. Solve.

20. Reasoning How can estimating the quotient help you check that your answer to a division problem is reasonable?

21. Number Sense Maya has 462 pennies. Use mental math to find how many pennies are left if she puts them in stacks of 50 pennies. Explain your reasoning.

22. A caravan crossed 1,378 miles of desert in 85 days. It traveled 22 miles on the first day and 28 miles on the second day. If the caravan traveled the same number of miles on each of the remaining days, how many miles did it travel on each of those days? Complete the bar diagram to show how you found the answer.

number of days → [ ]———————? ———→

23. For which division problems is 54 the quotient? Write those division problems in the box.

Quotient = 54
$45\overline{)2{,}430}$ $12\overline{)660}$ $81\overline{)3{,}645}$
$11\overline{)594}$ $19\overline{)950}$