



SKILL 30: Dividing by a 2-Digit Divisor

Estimate the quotient to help you divide by a 2-digit divisor.

Example

Divide: $6,415 \div 73$.

Use compatible numbers to estimate the quotient: $6,300 \div 70 = 90$.

$$\begin{array}{r} 8 \\ 73 \overline{) 6,415} \\ \underline{-584} \\ 57 \end{array}$$

$$\begin{array}{r} 87 \text{ R}64 \\ 73 \overline{) 6,415} \\ \underline{-584} \\ 575 \\ \underline{-511} \\ 64 \end{array}$$

Use the estimate to help you place the first digit in the quotient.

Divide. Try 9: $9 \times 73 = 657$.

Too large: $657 > 641$.

Try 8: $8 \times 73 = 584$.

Subtract.

Bring down the 5. Divide.

Try 7: $7 \times 73 = 511$.

Subtract. Compare: $64 < 73$.

Write the remainder.

Check: Multiply.

$$87 \times 73 = 6,351$$

Add remainder. $6,351 + 64 = 6,415$

Guided Practice

Divide. Check your answer.

$$\begin{array}{r} \square \text{ R} \square \square \\ 1. 42 \overline{) 309} \\ \underline{-294} \\ \square \square \end{array}$$

$$\begin{array}{r} \square \square \\ 2. 58 \overline{) 3,248} \\ \underline{-290} \\ \square \square \square \\ \underline{-\square \square \square} \\ 0 \end{array}$$

$$\begin{array}{r} \square \square \square \text{ R} \square \square \\ 3. 62 \overline{) 9,252} \\ \underline{-\square \square} \\ 305 \\ \underline{-\square \square \square} \\ 572 \\ \underline{-\square \square \square} \\ \square \square \end{array}$$

SKILL 30: Practice**Divide. Check your answer.**

1. $17 \overline{)85}$

2. $36 \overline{)288}$

3. $52 \overline{)1,300}$

4. $68 \overline{)1,090}$

5. $75 \overline{)4,575}$

6. $43 \overline{)516}$

7. $29 \overline{)2,233}$

8. $84 \overline{)924}$

9. $37 \overline{)851}$

10. $14 \overline{)98}$

11. $44 \overline{)704}$

12. $56 \overline{)1,801}$

13. $71 \overline{)2,059}$

14. $27 \overline{)621}$

15. $34 \overline{)376}$

16. $50 \overline{)899}$

Solve.

17. A chef needs 828 eggs to prepare recipes for a week. How many dozen eggs should she order? _____

18. A bus holds 38 people. How many buses are needed to transport 200 people? _____

TEST PREP

19. What is
- $735 \div 15$
- ?

A 38

C 48

B 39

D 49

Skill 30

20. A sporting goods store sold 62 pairs of shin guards on sale for \$8 each. Which is the best estimate of the total amount of these sales?

F \$420

H \$700

G \$480

J \$8

Skill 13