



SKILL 29: Dividing by a 1-Digit Divisor with Zero in the Quotient

The place-value of the digits in the dividend can help you divide when there are zeros in the quotient.

Example

Divide: $4,224 \div 7$.

Divide the hundreds.

$$\begin{array}{r} 6 \\ 7 \overline{)4,238} \\ \underline{-42} \\ 0 \end{array}$$

$4 < 7$, so begin writing above the 2.
There are six 7s in 42.
Multiply: $6 \times 7 = 42$.
Subtract. Compare: $0 < 7$.

Divide the tens.

$$\begin{array}{r} 60 \\ 7 \overline{)4,238} \\ \underline{-42} \downarrow \\ 03 \end{array}$$

Bring down the 3.
There are zero 7s in 3.
Write a zero above the 3.

Divide the ones.

$$\begin{array}{r} 605 \text{ R}3 \\ 7 \overline{)4,238} \\ \underline{-42} \downarrow \\ 038 \\ \underline{-35} \\ 3 \end{array}$$

Bring down the 8.
There are five 7s in 38.
Multiply: $5 \times 7 = 35$.
Subtract. Compare: $3 < 5$.
Write the remainder.

Check: Multiply.

$$605 \times 7 = 4,235$$

Add remainder.

$$4,235 + 3 = 4,238$$

Guided Practice

Divide.

$$\begin{array}{r} \square\square\square \\ 1. \ 9 \overline{)7,245} \\ \underline{-72} \\ 045 \\ \underline{-\square\square} \\ \square \end{array}$$

$$\begin{array}{r} \square\square\square \text{ R} \square \\ 2. \ 3 \overline{)1,921} \\ \underline{-18} \\ \square\square \\ \underline{-\square\square} \\ 0\square \\ \underline{-0} \\ 1 \end{array}$$

$$\begin{array}{r} \square\square\square\square \text{ R} \square \\ 3. \ 6 \overline{)6,194} \\ \underline{-\square} \\ 019 \\ \underline{-\square\square} \\ \square\square \\ \underline{-\square\square} \\ \square \end{array}$$

SKILL 29: Practice

Divide.

1. $6 \overline{)242}$

2. $3 \overline{)90}$

3. $7 \overline{)213}$

4. $9 \overline{)918}$

5. $5 \overline{)2,004}$

6. $3 \overline{)627}$

7. $4 \overline{)8,012}$

8. $6 \overline{)2,460}$

9. $5 \overline{)3,015}$

10. $7 \overline{)709}$

11. $8 \overline{)2,408}$

12. $6 \overline{)1,892}$

13. $5 \overline{)2,205}$

14. $3 \overline{)1,229}$

15. $9 \overline{)6,311}$

16. $3 \overline{)2,127}$

Solve.

17. Stephanie prepared 840 ounces of pasta.
How many 4-ounce servings will that make? _____

18. Billy Bob's Boot Emporium has 545 pairs of boots
in 5 colors. There are an equal number of each
color. How many of each color does Billy Bob's have? _____



19. Alana earns the same amount each month. In 6 months she earns a total of \$2,280. How much does she earn each month?

Skill 29

A \$307

C \$370

B \$308

D \$380

20. Which of these has the same value as 3×2 ?

Skill 10

F $3 + 3 + 3$

H 2×3

G $2 \times 2 \times 2$

J $2 \div 3$