

2-Digit Quotients

Find $866 \div 34$.

Step 1: Round the divisor to the nearest ten. Look at the first digit in the divisor and the first digit in the dividend. What basic division fact is the best estimate of the quotient of these two numbers?

$$34 \overline{)866} \quad \longrightarrow \quad 30 \overline{)866}$$

$$8 \div 3 = 2 \text{ R}2$$

Step 2: Use this fact to begin the quotient. Write it over the tens place.

$$\begin{array}{r} 2 \\ 34 \overline{)866} \\ \underline{-68} \downarrow \\ 186 \end{array}$$

Multiply, $2 \times 34 = 68$.

Subtract and bring down the next digit in the dividend.

Step 3: What basic division fact is the best estimate of the next division? Use this fact and write it over the ones place.

$$\begin{array}{r} 25 \text{ R}16 \\ 34 \overline{)866} \\ \underline{-68} \\ 186 \\ \underline{-170} \\ 16 \end{array}$$

Multiply, $5 \times 34 = 170$.

Subtract. Compare the remainder with the divisor.

If the remainder is less than the divisor, write it in the quotient.

Check.

$$25 \times 34 = 850$$

$$850 + 16 = 866$$

Complete.

1. $39 \overline{)437}$ 11 R

2. $24 \overline{)627}$ $\text{R}3$

3. $26 \overline{)917}$ R

Divide. Check by multiplying.

4. $13 \overline{)175}$

5. $44 \overline{)508}$

6. April has 95 baseball cards. She wants to organize them on pages that hold 18 cards each. She has 5 pages. Does April have enough pages to organize all her cards?

Name _____

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In 1 through 6, find each quotient.

1. $14 \overline{)413}$ _____

2. $29 \overline{)634}$ _____

3. $35 \overline{)768}$ _____

4. $19 \overline{)401}$ _____

5. $45 \overline{)942}$ _____

6. $26 \overline{)503}$ _____

7. The school student council sponsored a Switch Day where students were able to switch classes every 20 minutes. The students are in school for 7 hours. If a student switched as often as possible, how many classrooms in all did that student visit? (Hint: There are 60 minutes in 1 hour.)

8. 456 students participated in Switch Day. The students raised money for charity so that the principal would approve of the day. If the total amount of money raised was \$912, and each student brought in the same amount of money, how much did each student raise?

9. The total dinner bill at a buffet came out to \$589 for 31 people. About how much was the buffet cost per person?

A \$15.00

B \$20.00

C \$22.00

D \$25.00

10. If you have a two-digit divisor and a three-digit dividend, does the quotient always have the same number of digits?
