

Additional Practice 6-4

Divide by a 2-Digit Whole Number

Another Look!

The area of a sketch pad is 93.5 square inches. The length of the sketch pad is 11 inches. What is the width of the sketch pad?

First, estimate the width:
 $93.5 \div 11$ is about
 $90 \div 10 = 9$.

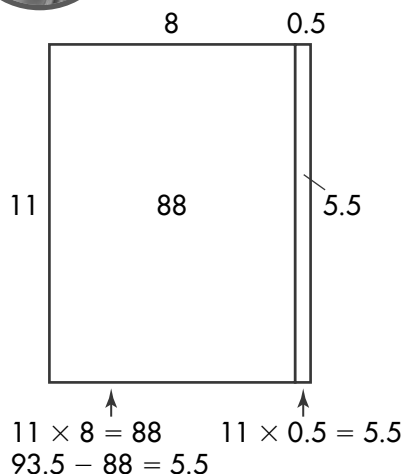


Divide 93.5 by 11.

$$\begin{array}{r} 8.5 \\ 11 \overline{)93.5} \\ \underline{-88.0} \\ 5.5 \\ \underline{-5.5} \\ 0 \end{array}$$

8.5 is close to the estimate of 9, so the answer is reasonable.

The width of the sketch pad is 8.5 inches.



Leveled Practice In 1–12, find each quotient.

$$\begin{array}{r} 3.1 \\ 23 \overline{)71.3} \\ \underline{-69.0} \\ 2.3 \\ \underline{-2.3} \\ 0 \end{array}$$

$$\begin{array}{r} 2.4 \\ 80 \overline{)192.0} \\ \underline{-160.0} \\ 32.0 \\ \underline{-32.0} \\ 0 \end{array}$$

$$\begin{array}{r} 0.57 \\ 42 \overline{)23.94} \\ \underline{-21.00} \\ 2.94 \\ \underline{-2.94} \\ 0 \end{array}$$

$$\begin{array}{r} 2.25 \\ 18 \overline{)40.50} \\ \underline{-36.00} \\ 4.50 \\ \underline{-3.60} \\ .90 \\ \underline{-.90} \\ 0 \end{array}$$

$$\begin{array}{r} 3.8 \\ 26 \overline{)98.8} \end{array}$$

$$\begin{array}{r} 0.86 \\ 17 \overline{)14.62} \end{array}$$

$$\begin{array}{r} 6.3 \\ 25 \overline{)157.5} \end{array}$$

$$\begin{array}{r} 8.7 \\ 13 \overline{)113.1} \end{array}$$

$$\begin{array}{r} 3.2 \\ 83.2 \div 26 \end{array}$$

$$\begin{array}{r} 6.4 \\ 25.6 \div 4 \end{array}$$

$$\begin{array}{r} 5.03 \\ 90.54 \div 18 \end{array}$$

$$\begin{array}{r} 0.15 \\ 2.25 \div 15 \end{array}$$



13. The longest spin of a basketball on one finger is 255 minutes. About how many hours is that?

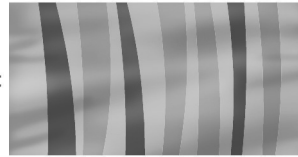
About 4 hours

14. Kara paid \$24.64 to ship 11 packages. Each package was the same size and weight. How much did it cost to ship 1 package? **\$2.24**

15. **Higher Order Thinking** Liza needs a total of 22.23 square feet of terry cloth to make a beach towel and a beach bag. The beach bag requires 5.13 square feet of cloth. What is the length of the beach towel? Explain.

5.7 feet; $22.33 - 5.13 = 17.1$, $17.1 \div 3 = 5.7$

3 feet



16. In 1927, Charles Lindbergh had his first solo flight across the Atlantic Ocean. He flew 3,610 miles in 33.5 hours. If he flew about the same number of miles each hour, how many miles did he fly each hour?

Sample answer: About 100 miles an hour

17. Tiffany deposited the following amounts in her savings account last month: \$6.74, \$5.21, \$5.53, and \$3.52. Divide the sum by 30 to find the average amount she saved per day for the month. Show your work.

**\$0.70 per day;
 $\$6.74 + \$5.21 + \$5.53 + \$3.52 = \$21.00$; $21.00 \div 30 = \$0.70$**

18. **Make Sense and Persevere** Susan bought 3 plants that cost \$2.75 each. She wants to buy 3 clay pots that cost \$4.15 each. If Susan had \$20 to start, does she have enough money to also buy the clay pots? Explain.

No. $3 \times \$2.75 = \8.25 ; $\$20 - \$8.25 = \$11.75$. $3 \times \$4.15 = \12.45 ; $\$12.45 > \11.75 .

19. Todd is saving for a vacation. The cost of his vacation is \$1,089. Todd has a year to save the money. About how much does he need to save each month to reach his goal?

Sample answer: About \$90



Assessment Practice

20. Which is equal to 78.2 divided by 17?

(A) 0.46
(B) 4.06
(C) 4.6
(D) 46

21. Which is equal to 12.74 divided by 13?

(A) 0.09
(B) 0.98
(C) 9.08
(D) 9.8