



Additional Practice 4-4

Multiply a Decimal and a Whole Number

Another Look!

Travis can read a book chapter in 2.3 hours. The book has 18 chapters. How long will it take Travis to read the book?

Multiply as with whole numbers.

$$\begin{array}{r} 23 \\ \times 18 \\ \hline 184 \\ + 230 \\ \hline 414 \end{array}$$

So, $23 \times 18 = 414$. Now think about the number of decimal places to find 2.3×18 .

Since $2 \times 18 = 36$ and $3 \times 18 = 54$, the product must be between 36 and 54.

41.4

It will take Travis 41.4 hours.

41.4 is reasonable
because $2 \times 20 = 40$.



In 1 and 2, use number sense to find the products.

1. $46 \times 3 = 38$

$4.6 \times 3 = \underline{13.8}$

$0.46 \times 3 = \underline{1.38}$

2. $17 \times 15 = 255$

$17 \times 1.5 = \underline{25.5}$

$17 \times 0.15 = \underline{2.55}$

In 3–14, find each product.

3. $\begin{array}{r} 27.4 \\ \times 7 \\ \hline 191.8 \end{array}$

4. $\begin{array}{r} 336 \\ \times 0.4 \\ \hline 134.4 \end{array}$

5. $\begin{array}{r} 88 \\ \times 1.8 \\ \hline 158.4 \end{array}$

6. $\begin{array}{r} 4.02 \\ \times 9 \\ \hline 36.18 \end{array}$

7. 1.7×12
20.4

8. 105×0.4
42

9. 1.4×32
44.8

10. 0.89×21
18.69

11. 4.4×18
79.2

12. 0.3×279
83.7

13. 95×5.7
541.5

14. 46×0.46
21.16



15. If each month in Reno had the same average rainfall as in August, what would the total amount of rainfall be after 12 months?

2.28 mm

16. List the deserts in order from greatest amount of rainfall in August to least amount of rainfall in August.

Reno, Sahara, Mojave

Desert Rainfall in August	
Desert	Average Rainfall (mm)
Mojave	0.1
Reno	0.19
Sahara	0.17

17. **Number Sense** Write two numbers that are greater than 32.46 and less than 32.56. Then find the difference of your two numbers. **Sample answer:**
32.47, 32.55; $32.55 - 32.47 = 0.08$

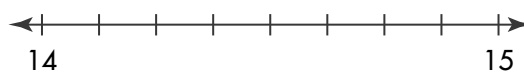
18. Each juice bottle contains 8.6 fluid ounces. How many fluid ounces of juice are in a carton with 12 bottles?
103.2 fluid ounces

19. **Be Precise** A 100-watt solar power panel usually costs \$146. They are on sale for 0.75 of the regular price. Multiply 146 by 0.75 to find the sale price.
\$109.50

20. **Higher Order Thinking** A family has a huge array of solar panels to make electricity. If each month they sell back 420 kWh for \$0.07 per kWh, how much money could they make in a year?
\$352.80

21. Carla had a piece of rope that was $14\frac{7}{8}$ in. long. She used some of the rope for a crafts project. Now there is $14\frac{3}{8}$ in. left. How much rope did she use? Use the number line to help.

She used $\frac{1}{2}$ inch of rope.



Assessment Practice

22. Which of the following equations is **NOT** true?

- (A) $225 \times 4 = 9,000$
- (B) $225 \times 0.04 = 9$
- (C) $22.5 \times 4 = 90$
- (D) $225 \times 0.4 = 90$

23. Which of the following equations is **NOT** true?

- (A) $80 \times 15 = 1,200$
- (B) $0.8 \times 15 = 12$
- (C) $80 \times 0.15 = 1.2$
- (D) $80 \times 1.5 = 120$