

3.1

Multiplying a Whole Number by a Unit Fraction

• Example 1

Find $\frac{1}{3}$ of 21.

Method 1: Divide 21 by 3

$$\begin{array}{r} 7 \\ 3 \overline{)21} \end{array}$$

$\frac{1}{3}$ of 21 is 7.

Method 2: Multiply $21 = \frac{21}{1}$ by $\frac{1}{3}$

$$\frac{1}{3} \times \frac{21}{1} = \frac{1 \cdot 21}{3 \cdot 1} = \frac{\cancel{1} \cdot \cancel{3} \cdot 7}{\cancel{3} \cdot \cancel{1}} = 7$$

$\frac{1}{3}$ of 21 is 7.

• • • CHECK YOURSELF 1

Find $\frac{1}{8}$ of 24.

• • • CHECK YOURSELF ANSWER

1. 3.

3.1 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Find the indicated fractional part of each number.

1. $\frac{1}{5}$ of 35

2. $\frac{1}{3}$ of 18

3. $\frac{1}{6}$ of 42

4. $\frac{1}{2}$ of 12

5. $\frac{1}{12}$ of 72

6. $\frac{1}{7}$ of 56

7. $\frac{1}{6}$ of 48

8. $\frac{1}{9}$ of 36

9. $\frac{1}{13}$ of 39

10. $\frac{1}{4}$ of 44