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## Mixed Numbers and Unit Fractions

Write each mixed number as the product of a whole number and a unit fraction.

1.  $1\frac{1}{3}$

$$4 \times \frac{1}{3}$$


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

$$7 \times \frac{1}{2}$$


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3.  $1\frac{3}{5}$

$$8 \times \frac{1}{5}$$


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4.  $2\frac{3}{8}$

$$19 \times \frac{1}{8}$$


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5.  $3\frac{3}{4}$

$$15 \times \frac{1}{4}$$


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6.  $5\frac{2}{3}$

$$17 \times \frac{1}{3}$$


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7.  $4\frac{2}{5}$


$$22 \times \frac{1}{5}$$


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8.  $5\frac{1}{5}$

$$26 \times \frac{1}{5}$$


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9.  **Write Math** Explain how you found the answer in Exercise 1.

**Possible explanation: First I rewrote the mixed**

**number  $1\frac{1}{3}$  as a fraction greater than 1,  $\frac{4}{3}$ . Then**

**I used repeated addition to write  $\frac{4}{3}$  as  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} +$**

**$\frac{1}{3}$ , or  $4 \times \frac{1}{3}$ .**

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## Multiples of Mixed Numbers

List the next three multiples of the mixed number. Write each multiple as a mixed number or as a whole number.

1.  $1\frac{1}{8}$

$2\frac{2}{8}, 3\frac{3}{8}, 4\frac{4}{8}$

2.  $2\frac{1}{2}$

$5, 7\frac{1}{2}, 10$

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

$3\frac{1}{3}, 5, 6\frac{2}{3}$

4.  $2\frac{1}{3}$

$4\frac{2}{3}, 7, 9\frac{1}{3}$

5.  $3\frac{1}{5}$

$6\frac{2}{5}, 9\frac{3}{5}, 12\frac{4}{5}$

6.  $1\frac{1}{4}$


$2\frac{2}{4}, 3\frac{3}{4}, 5$

7.  $1\frac{3}{5}$

$3\frac{1}{5}, 4\frac{4}{5}, 6\frac{2}{5}$

8.  $2\frac{3}{4}$

$5\frac{2}{4}, 8\frac{1}{4}, 11$

9.  Describe a method other than multiplication that you can use to find the next three multiples of the mixed number in Exercise 7.

**Possible answer: I can use repeated addition. To get the first multiple, start with  $1\frac{3}{5}$  and add  $1\frac{3}{5}$ . To get the second multiple, add  $1\frac{3}{5}$  to the first multiple. To get the third multiple, add  $1\frac{3}{5}$  to the second multiple.**

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## Fraction of a Whole Number

Find the product. Write the product as a whole number.

1.  $\frac{1}{8} \times 24 =$

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**3**

2.  $\frac{2}{3} \times 15 =$

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**10**

3.  $\frac{3}{5} \times 10 =$

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**6**

4.  $\frac{4}{7} \times 14 =$

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**8**

5.  $\frac{5}{6} \times 18 =$

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**15**

6.  $\frac{3}{4} \times 16 =$

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**12**

7.  $\frac{2}{9} \times 27 =$

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**6**

8.  $\frac{7}{8} \times 32 =$

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**28**

9.  $\frac{9}{10} \times 50 =$

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**45**

10.  $\frac{4}{5} \times 45 =$

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**36**

11.  $\frac{5}{12} \times 60 =$


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**25**

12.  $\frac{8}{9} \times 54 =$

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**48**

13.  **Write Math** Explain how you can tell if the product of a fraction and a whole number will be a whole number.

**Possible explanation: when the denominator of the fraction is a factor of the whole number, the product will be a whole number.**

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## Unknown Numbers

Find the unknown number that makes each equation true.

1.  $\blacksquare \times \frac{3}{4} = 2\frac{1}{4}$

**3**

2.  $4 \times \frac{\blacksquare}{5} = 1\frac{3}{5}$

**2**

3.  $7 \times \blacksquare = 1\frac{5}{9}$

 **$\frac{2}{9}$** 

4.  $2 \times \blacksquare \frac{1}{3} = 6\frac{2}{3}$


**3**

5.  $\blacksquare \times 1\frac{5}{6} = 9\frac{1}{6}$

**5**

6.  $\blacksquare \times 2\frac{2}{7} = 13\frac{5}{7}$

**6**

7.  **Write Math** Explain how you found the unknown number in Exercise 3.

**Possible answer: first, I wrote 7 as  $\frac{7}{1}$  and  $1\frac{5}{9}$  as the fraction  $\frac{14}{9}$ . I rewrote the multiplication sentence as  $\frac{7}{1} \times \blacksquare = \frac{14}{9}$ .**

**The unknown number must be a fraction, since the product is a fraction. To find the numerator of the unknown fraction, I divided 14 by 7 to get 2. To find the denominator of the unknown fraction, I divided 9 by 1 to get 9. So the unknown number is  $\frac{2}{9}$ .**

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## Heights and Depths

Solve each problem. You may find it helpful to draw a diagram.

1. The depth of Lake Carl is about  $1\frac{1}{8}$  miles. Lake Susan is 3 times as deep as Lake Carl. Lake Wayne is 2 times as deep as Lake Susan. How much deeper is Lake Wayne than Lake Susan?

**$3\frac{3}{8}$  miles**

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2. Mount Rogers rises  $\frac{1}{4}$  mile above sea level. Mount Taylor rises 6 times as high as Mount Rogers. Mount Sullivan rises 2 times as high as Mount Rogers. What is the difference in the elevation of Mount Taylor and the elevation of Mount Sullivan?

**$\frac{4}{4}$  or 1 mile**

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3. A certain tree was  $5\frac{1}{3}$  feet tall when it was first planted. A few years later, the tree is 4 times as tall as it was when it was first planted. How much has the tree grown since it was first planted?

**16 feet**

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4.  **Write Math** Explain how you solved Problem 3.

**Possible explanation: I drew a comparison model to compare the different heights of the tree. I used the model to write the equation  $t = 4 \times 5\frac{1}{3}$ . I solved the equation and got  $t = 21\frac{1}{3}$ . This represents the tree's new height. To find how much the tree had grown, I subtracted  $21\frac{1}{3} - 5\frac{1}{3}$ , which is 16 feet.**

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