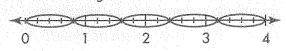
Find  $4 \div \frac{4}{5}$ . Use a number line.

Divide 4 into  $\frac{4}{5}$  parts.



$$4 \div \frac{4}{5} = 5$$

Remember that when the divisor is less than 1, the quotient is larger than the dividend.

1. 
$$7 \div \frac{1}{2}$$

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

3. 
$$2 \div \frac{1}{8}$$

4. 
$$\frac{8}{9} \div \frac{4}{9}$$

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

**6.** 
$$\frac{3}{4} \div 6$$

Set B, pages 204-207

Find 
$$4 \div \frac{8}{13}$$
.

Dividing by a fraction is the same as multiplying by its reciprocal.

$$4 \div \frac{8}{13} = 4 \times \frac{13}{8}$$

Use the reciprocal of the divisor to rewrite the problem.

$$\frac{1}{1} \times \frac{13}{8} = \frac{13}{2} \text{ or } 6\frac{1}{2}$$

Look for common factors and simplify

Find 
$$\frac{3}{4} \div \frac{5}{8}$$
.

$$\frac{3}{4} \div \frac{5}{8} = \frac{3}{4} \times \frac{8}{5}$$

Rewrite the problem as a multiplication problem.

$$\frac{3}{1/4} \times \frac{8^2}{5} = \frac{6}{5} \text{ or } 1\frac{1}{5}$$

Simplify. Then, multiply.

Remember that the product of a number and its reciprocal is 1.

1. 
$$25 \div \frac{4}{9}$$

**2.** 
$$12 \div \frac{3}{5}$$

3. 
$$8 \div \frac{5}{7}$$

**4.** 
$$\frac{7}{8} \div \frac{1}{4}$$

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

**6.** 
$$\frac{3}{4} \div \frac{1}{3}$$

**7.** 
$$\frac{5}{6} \div \frac{3}{8}$$
 **8.**  $\frac{1}{3} \div \frac{1}{2}$ 

8. 
$$\frac{1}{3} \div \frac{1}{2}$$

**9.** 
$$5 \div \frac{5}{16}$$

**9.** 
$$5 \div \frac{5}{16}$$
 **10.**  $\frac{7}{12} \div \frac{3}{4}$ 

11. 
$$\frac{8}{9} \div \frac{2}{3}$$

**12.** 
$$\frac{2}{7} \div \frac{2}{7}$$

Set C, pages 208-209

Estimate  $3\frac{1}{5} \div 8\frac{3}{4}$  using rounding or compatible numbers.

$$3\frac{1}{5} \div 8\frac{3}{4} \approx 3 \div 9$$

 $3 \div 9 = \frac{3}{9} \text{ or } \frac{1}{3}$ 

Round to the nearest whole number.  $\frac{1}{5} < \frac{1}{2}$  and  $\frac{3}{4} > \frac{1}{2}$ .  $3\frac{1}{5}$  and  $8\frac{3}{4}$  round to 3 and 9.

So, 
$$3\frac{1}{5} \div 8\frac{3}{4} \approx \frac{1}{3}$$
.

Remember that you can estimate using compatible numbers.

1. 
$$\frac{7}{9} \div 16$$

**1.** 
$$\frac{7}{9} \div 16$$
 **2.**  $24\frac{4}{10} \div 6\frac{1}{3}$ 

**3.** 
$$3\frac{5}{6} \div 8\frac{2}{7}$$
 **4.**  $27 \div 3\frac{2}{5}$ 

4. 
$$27 \div 3\frac{2}{5}$$

**5.** 
$$36\frac{3}{8} \div 12\frac{2}{5}$$

**6.** 
$$3\frac{11}{12} \div 4\frac{4}{5}$$

Find  $6\frac{1}{2} \div 1\frac{1}{6}$ . Estimate.  $6\frac{1}{2} \div 1\frac{1}{6} \approx 6$ 

$$6\frac{1}{2} \div 1\frac{1}{6} = \frac{13}{2} \div \frac{7}{6}$$

$$\frac{13}{2} \div \frac{7}{6} = \frac{13}{2} \times \frac{6}{7}$$

Then write the problem as a multiplication problem using the reciprocal of the divisor.

$$\frac{13}{\sqrt{2}} \times \frac{\cancel{6}^3}{7} = \frac{39}{7} \text{ or } 5\frac{4}{7} \qquad \text{Simplify. Then, multiply.}$$

 $5\frac{4}{7}$  is close to the estimate of 6.

Remember to estimate before solving the problem so you can check the reasonableness of your answer.

Find each quotient.

1. 
$$6\frac{3}{8} \div 4\frac{1}{4}$$

**2.** 9 ÷ 
$$2\frac{2}{7}$$

**3.** 
$$3\frac{3}{5} \div 1\frac{1}{5}$$
 **4.**  $5\frac{1}{2} \div 3\frac{3}{8}$ 

**4.** 
$$5\frac{1}{2} \div 3\frac{3}{8}$$

**5.** 
$$3\frac{2}{5} \div 1\frac{1}{5}$$

**6.** 
$$12\frac{1}{6} \div 3$$

Set E, pages 212-213

Find  $w + 4\frac{1}{3} = 7$ .

Subtract  $4\frac{1}{3}$  from both sides.

$$w + 4\frac{1}{3} - 4\frac{1}{3} = 7 - 4\frac{1}{3}$$

$$w = 2\frac{2}{3}$$

Remember that you can use inverse relationships and properties of equality to solve each equation.

1. 
$$g + 3\frac{5}{8} = 7\frac{1}{4}$$

**2.** 
$$b \div 15 = 8\frac{1}{3}$$

3. 
$$\frac{7}{9}y = 49$$

**Set F,** pages 214–215

If the pattern continues, how tall will the plants be at the end of 5 weeks?

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The plants grew  $2\frac{1}{2}$  inches during Week 1.

$$2\frac{1}{2} + 2\frac{1}{2} = 5$$
;  $5 + 2\frac{1}{2} = 7\frac{1}{2}$ 

Check the pattern for Weeks 2 and 3.

$$7\frac{1}{2} + 2\frac{1}{2} = 10$$
;  $10 + 2\frac{1}{2} = 12\frac{1}{2}$ 

Use the pattern to solve the problem.

The plants will be  $12\frac{1}{2}$  in. at the end of 5 weeks.

**Remember** to look for a pattern by finding relationships between numbers, figures, or expressions. Find the missing numbers.

1. 
$$\frac{1}{17'}$$
  $\frac{3}{17'}$   $\frac{6}{17'}$   $\frac{10}{17'}$ 

**2.** 12, 
$$13\frac{1}{3}$$
,  $14\frac{2}{3}$ , 16,  $\square$ ,  $\square$ 

3. 
$$\frac{5}{18}$$
,  $\frac{4}{18}$ ,  $\frac{3}{18}$ ,  $\mathbb{I}$ 

**4.** 
$$1\frac{1}{2}$$
,  $1\frac{1}{4}$ ,  $1$ ,  $\frac{3}{4}$ ,  $\blacksquare$ ,