

## Fractions: Retrieve and Connects

# Retrieve and Connect



A



B



C



D

## Questions

1. Which shapes (A, B, C, D) are divided into equal parts?
2. In shape B, what fraction is shaded?
3. Draw a rectangle divided into 5 equal parts. Shade  $\frac{3}{5}$ .
4. Which is larger:  $\frac{2}{5}$  or  $\frac{3}{5}$ ?
5. Which is larger:  $\frac{3}{5}$  or  $\frac{3}{4}$ ?
6. Order the following fractions from smallest to largest:  
 $\frac{1}{100}$ ,  $\frac{100}{1}$ ,  $\frac{1}{10}$ ,  $\frac{10}{1}$ ,  $\frac{1}{1}$

# Retrieve and Connect



A



B



C



D



Q3:  $\frac{3}{5}$

## Questions

1. Which shapes (A, B, C, D) are divided into equal parts? **B and C**
2. In shape B, what fraction is shaded?  $\frac{1}{4}$
3. Draw a rectangle divided into 5 equal parts. Shade  $\frac{3}{5}$ .
4. Which is larger:  $\frac{2}{5}$  or  $\frac{3}{5}$ ?  $\frac{3}{5}$
5. Which is larger:  $\frac{3}{5}$  or  $\frac{3}{4}$ ?  $\frac{3}{4}$
6. Order the following fractions from smallest to largest:

$$\frac{1}{100}, \frac{100}{1}, \frac{1}{10}, \frac{10}{1}, \frac{1}{1}$$
$$\frac{1}{100}, \frac{1}{10}, \frac{1}{1}, \frac{10}{1}, \frac{100}{1}$$

# Retrieve and Connect



## Questions

1. Write the fraction shaded for each bar.
2. Is the same proportion of each bar shaded?
3. Use the bars to fill in the blanks:  $\frac{?}{2} = \frac{?}{4} = \frac{?}{6}$
4. Shade  $\frac{2}{3}$  of a bar divided into 9 parts.
5. Find the missing numerator:  
 $\frac{2}{3} = \frac{?}{9}$
6. Find the missing numerator:  
 $\frac{1}{3} = \frac{?}{6}$ .
7. Which two fractions are equivalent:  $\frac{1}{2}, \frac{2}{5}, \frac{4}{8}, \frac{3}{6}$ ?

# Retrieve and Connect

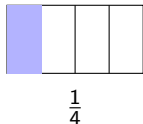
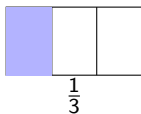
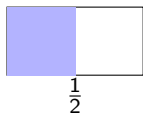


Q4:  $\frac{6}{9} = \frac{2}{3}$

## Questions

1. Write the fraction shaded for each bar.  $\frac{1}{2}$ ,  $\frac{2}{4}$ ,  $\frac{3}{6}$
2. Is the same proportion of each bar shaded? **Yes**
3. Use the bars to fill in the blanks:  $\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$
4. Shade  $\frac{2}{3}$  of a bar divided into 9 parts.
5. Find the missing numerator:  
 $\frac{2}{3} = \frac{6}{9}$
6. Find the missing numerator:  
 $\frac{1}{3} = \frac{2}{6}$ .
7. Which two fractions are equivalent:  $\frac{1}{2}$ ,  $\frac{2}{5}$ ,  $\frac{4}{8}$ ,  $\frac{3}{6}$ ?  
 $\frac{1}{2} = \frac{4}{8} = \frac{3}{6}$

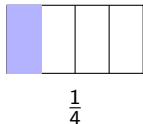
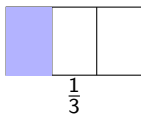
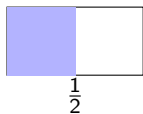
# Retrieve and Connect: Comparing Fractions



## Questions

1. Which is larger:  $\frac{1}{2}$  or  $\frac{1}{3}$ ?
2. Compare  $\frac{2}{5}$  and  $\frac{4}{5}$ . Which is bigger?
3. Convert  $\frac{3}{4}$  and  $\frac{5}{8}$  to a common denominator. Which is larger?
4. Order from smallest to largest:  
 $\frac{1}{3}, \frac{1}{6}, \frac{1}{2}$ .
5. Sam ate  $\frac{2}{3}$  of a pizza, Lee ate  $\frac{5}{6}$  of the same pizza. Who ate more?
6. Compare  $\frac{4}{6}$  and  $\frac{2}{3}$ .

# Retrieve and Connect: Comparing Fractions

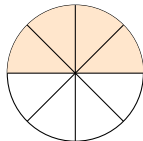


## Questions

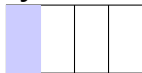
1. Which is larger:  $\frac{1}{2}$  or  $\frac{1}{3}$ ?  $\frac{1}{2}$
2. Compare  $\frac{2}{5}$  and  $\frac{4}{5}$ . Which is bigger?  $\frac{4}{5}$
3. Convert  $\frac{3}{4}$  and  $\frac{5}{8}$  to a common denominator. Which is larger?  
 $\frac{3}{4} = \frac{6}{8}$ ; larger:  $\frac{3}{4}$
4. Order from smallest to largest:  
 $\frac{1}{3}, \frac{1}{6}, \frac{1}{2}, \frac{1}{6}, \frac{1}{3}, \frac{1}{2}$
5. Sam ate  $\frac{2}{3}$  of a pizza, Lee ate  $\frac{5}{6}$  of the same pizza. Who ate more? Lee ate more.
6. Compare  $\frac{4}{6}$  and  $\frac{2}{3}$ . Equal:  $\frac{4}{6} = \frac{2}{3}$

# Retrieve and Connect

## Fractions everywhere



Pizza



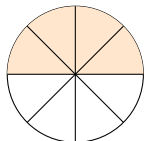
Chocolate

## Questions

1. A cake is cut into 10 equal slices. If 3 are eaten, what fraction remains? \_\_\_\_.
2. There are 30 students.  $\frac{2}{5}$  walk to school. How many walk?
3. A ruler is 24 cm long. Mark  $\frac{1}{2}$  and  $\frac{1}{3}$  on it. How many cm is each?
4. Which is longer:  $\frac{3}{4}$  of an hour or  $\frac{2}{3}$  of an hour? (1 hour = 60 mins)
5. You have \$30. You spend  $\frac{2}{5}$  on a book. How much do you spend? How much left?

# Retrieve and Connect

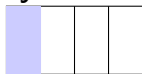
## Fractions everywhere



Pizza

$$\frac{1}{3} = 8 \text{ cm}$$

$$\frac{1}{2} = 12 \text{ cm}$$

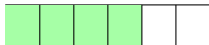
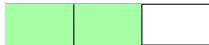


Chocolate

## Questions

1. A cake is cut into 10 equal slices. If 3 are eaten, what fraction remains?  $\frac{7}{10}$ .
2. There are 30 students.  $\frac{2}{5}$  walk to school. How many walk? 12 students walk
3. A ruler is 24 cm long. Mark  $\frac{1}{2}$  and  $\frac{1}{3}$  on it. How many cm is each?
4. Which is longer:  $\frac{3}{4}$  of an hour or  $\frac{2}{3}$  of an hour? (1 hour = 60 mins)  $\frac{3}{4}$  hour (45 mins) is longer
5. You have \$30. You spend  $\frac{2}{5}$  on a book. How much do you spend? How much left? Spend \$12, left \$18

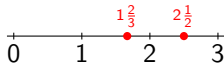
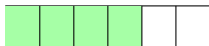
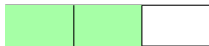
# Retrieve and Connect



1.  $\frac{1}{2} = \frac{?}{6}$
2. Write the fraction represented by each bar. (Extension) show that they are equivalent
3.  $\frac{5}{6} = \frac{10}{?}$
4. Mark  $1\frac{2}{3}$  and  $2\frac{1}{2}$  on the number line. Convert each to an improper fraction.
5.  $\frac{2}{3} = \frac{?}{12}$

6. Which are equivalent to  $\frac{3}{7}$ :  
 $\frac{9}{21}, \frac{6}{14}, \frac{12}{28}, \frac{8}{21}$ ?
7. Write 3 fractions equivalent to  $\frac{4}{9}$
8. Compare ( $< > =$ ) these fractions:  
 $\frac{2}{5} \square \frac{6}{15}$
9. Fully simplify  $\frac{48}{18}$

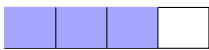
# Retrieve and Connect



- $\frac{1}{2} = \frac{3}{6}$
- Write the fraction represented by each bar. (Extension) show that they are equivalent  $\frac{2}{3}, \frac{4}{6}, \frac{6}{9}$
- $\frac{5}{6} = \frac{10}{12}$
- Mark  $1\frac{2}{3}$  and  $2\frac{1}{2}$  on the number line. Convert each to an improper fraction.  
 $1\frac{2}{3} = \frac{5}{3}; 2\frac{1}{2} = \frac{5}{2}$
- $\frac{2}{3} = \frac{8}{12}$
- Which are equivalent to  $\frac{3}{7}$ :  
 $\frac{9}{21}, \frac{6}{14}, \frac{12}{28}, \frac{8}{21}$ ?  
 $\frac{9}{21}, \frac{6}{14}, \frac{12}{28}$
- Write 3 fractions equivalent to  $\frac{4}{9}$   
 $\frac{8}{18}, \frac{12}{27}, \frac{16}{36}$
- Compare ( $< > =$ ) these fractions:  
 $\frac{2}{5} \square \frac{6}{15} =$
- Fully simplify  $\frac{48}{18}$   $\frac{8}{3}$   
(or  $2\frac{2}{3}$ )

# Retrieve and Connect

$$\frac{3}{5} = \frac{?}{20}$$



2. Write the fraction shown by each bar. (Extension) Explain why they represent the same amount.

3.  $\frac{4}{7} = \frac{?}{21}$

4. Mark  $1\frac{3}{4}$  and  $2\frac{2}{3}$  on the number line. Convert both to improper fractions.

6. Which are equivalent to  $\frac{5}{9}$ :

$$\frac{10}{18}, \frac{15}{27}, \frac{12}{20}, \frac{25}{45}?$$

7. Write 3 fractions equivalent to  $\frac{7}{12}$ .

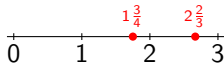
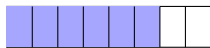
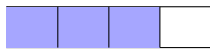
8. Order these fractions in ascending order:

$$\frac{2}{8}, \frac{4}{6}, \frac{5}{12}$$

9. Compare using  $<$ ,  $>$ , or  $=$ :

$$\frac{9}{14} \square \frac{19}{28}$$

# Retrieve and Connect $\frac{3}{5} = \frac{12}{20}$



2. Write the fraction shown by each bar. (Extension) Explain why they represent the same amount.

$$\frac{3}{4}, \frac{6}{8}, \frac{9}{12}$$

3.  $\frac{4}{7} = \frac{12}{21}$

4. Mark  $1\frac{3}{4}$  and  $2\frac{2}{3}$  on the number line.

Convert both to improper fractions.

$$1\frac{3}{4} = \frac{7}{4}, 2\frac{2}{3} = \frac{8}{3}$$

6. Which are equivalent to  $\frac{5}{9}$ :

$$\frac{10}{18}, \frac{15}{27}, \frac{12}{20}, \frac{25}{45}$$

$$\frac{10}{18}, \frac{15}{27}, \frac{25}{45}$$

7. Write 3 fractions equivalent to  $\frac{7}{12}$ .

$$\frac{14}{24}, \frac{21}{36}, \frac{28}{48}$$

8. Order these fractions in ascending order:

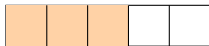
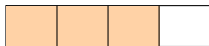
$$\frac{2}{8}, \frac{4}{6}, \frac{5}{12}$$

$$\frac{2}{8}, \frac{5}{12}, \frac{4}{6}$$

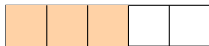
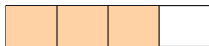
9. Compare using  $<$ ,  $>$ , or  $=$ :

$$\frac{9}{14} \square \frac{19}{28}$$

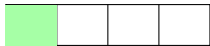
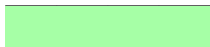
# Retrieve and Connect



# Retrieve and Connect



# Retrieve and Connect



1. Write the improper fraction shown by the diagram.
2. Write the mixed number represented by the green bars in the diagram.
3. Mark  $1\frac{1}{4}$  and  $2\frac{3}{4}$  on the number line.

4. Convert:  $\frac{13}{5}$  to a mixed number.
5. Convert:

$$3\frac{2}{3}$$

to an improper fraction.

6. Fully simplify:

$$\frac{16}{40}$$

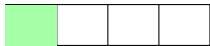
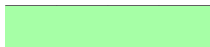
7. Which is greater:

$$\frac{4}{9} \square \frac{4}{11}$$

8. Order from smallest to largest:

$$\frac{6}{5}, \quad 1\frac{1}{2}, \quad \frac{7}{4}$$

# Retrieve and Connect



1. Write the improper fraction shown by the diagram.  $\frac{5}{4}$

2. Write the mixed number represented by the green bars in the diagram.  $1\frac{1}{4}$

3. Mark  $1\frac{1}{4}$  and  $2\frac{3}{4}$  on the number line. At  $1\frac{1}{4}$  and  $2\frac{3}{4}$

4. Convert:  $\frac{13}{5}$  to a mixed number.  $2\frac{3}{5}$

5. Convert:

$$3\frac{2}{3}$$

to an improper fraction.  $\frac{11}{3}$

6. Fully simplify:

$$\frac{16}{40}$$

$$\frac{2}{5}$$

7. Which is greater:

$$\frac{4}{9} \square \frac{4}{11}$$

$$\frac{4}{9}$$

8. Order from smallest to largest:

$$\frac{6}{5}, 1\frac{1}{2}, \frac{7}{4}$$

$$\frac{6}{5}, 1\frac{1}{2}, \frac{7}{4}$$

# Retrieve and Connect

Write the fractions shown by the bars.

2. Which is larger:

$$\frac{5}{6} \square \frac{5}{8}$$

3. Write 3 fractions equivalent to:

$$\frac{2}{5}$$

4. Fully simplify:

$$\frac{54}{72}$$

5. Convert to mixed

6. Convert to improper fractions:

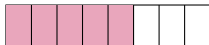
$$4\frac{1}{3}, \quad 2\frac{5}{6}$$

7. Order from smallest to largest:

$$\frac{123}{1234}, \quad \frac{321}{1234}, \quad \frac{111}{1234}$$

8. Challenge:

Which is larger?



# Retrieve and Connect

Write the fractions shown by the bars.  $\frac{5}{6}$  and  $\frac{5}{8}$

2. Which is larger:

$$\frac{5}{6} \square \frac{5}{8}$$

>

3. Write 3 fractions equivalent to:

$$\frac{2}{5}$$

$$\frac{4}{10}, \frac{6}{15}, \frac{8}{20}$$

4. Fully simplify:

$$\frac{54}{72}$$

$$\frac{3}{4}$$

5. Convert to mixed

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

6. Convert to improper fractions:

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

$$\frac{13}{3}, \frac{17}{6}$$

7. Order from smallest to largest:

$$\frac{123}{1234}, \frac{321}{1234}, \frac{111}{1234}$$

$$\frac{111}{1234}, \frac{123}{1234}, \frac{321}{1234}$$

8. Challenge:

Which is larger?

