

# Fraction Concepts Screener - Fall

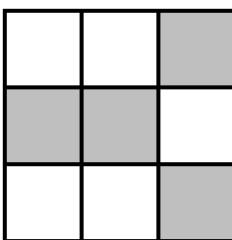
## Answer Key

Questions 1-3: Find the fraction.

1. Which fraction has a denominator of 6 and a numerator of 4?

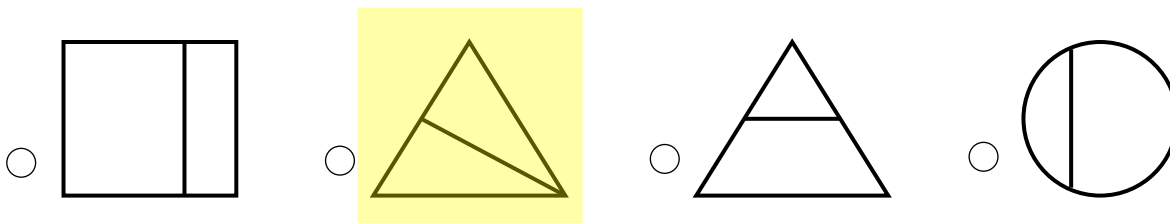
- $\frac{4}{10}$      
   $\frac{6}{10}$      
   $\frac{6}{4}$      
   $\frac{4}{6}$

2. Each section of the square below is the same size.  
 What fractional part of the square appears to be shaded?



- $\frac{4}{9}$      
   $\frac{5}{9}$      
   $\frac{4}{5}$      
   $\frac{5}{4}$

3. Which diagram appears to show fractional parts of  $\frac{1}{2}$  ?



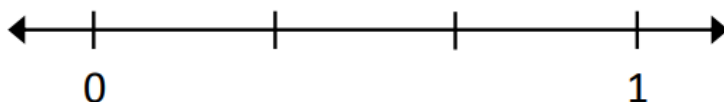
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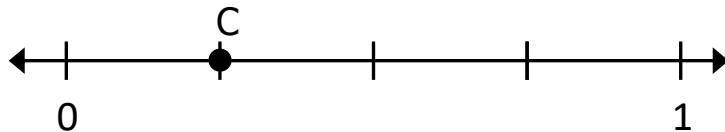
Questions 4-6: Find the fractional parts on the number line.

4. What is the name of each equal part between 0 and 1?



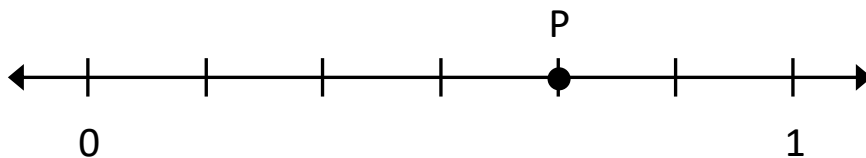
- Halves     
  Thirds     
  Fourths     
  Fifths

5. What fraction is shown by point C?



- $\frac{2}{4}$      
   $\frac{1}{4}$      
   $\frac{1}{5}$      
   $\frac{2}{5}$

6. What fraction is shown by point P?



- $\frac{4}{7}$      
   $\frac{5}{7}$      
   $\frac{5}{6}$      
   $\frac{4}{6}$



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(continued)

Questions 7-9: Compare the fractions. (>, <, =)

7.

$$\frac{2}{5} \quad \underline{\hspace{1cm}} \quad \frac{4}{5}$$

Answer: <

8.

$$\frac{1}{2} \quad \underline{\hspace{1cm}} \quad \frac{1}{10}$$

Answer: >

9.

$$\frac{3}{5} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$$

Answer: <



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(continued)

Questions 10-12: Compare the two fractions. (<, >, =)

10.

$$\frac{3}{5} \quad \underline{\hspace{1cm}} \quad \frac{4}{9}$$

Answer: >

11.

$$\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{6}{9}$$

Answer: =

12.

$$\frac{3}{4} \quad \underline{\hspace{1cm}} \quad \frac{5}{7}$$

Answer: >



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(continued)

**Questions 13-15:** Find equal values of the mixed number and improper fraction.

**13.** The mixed number  $4\frac{2}{3}$  is equivalent to which expression?

$4 \times \frac{2}{3}$

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

$3 + \frac{2}{4}$

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

**14.** The mixed number  $3\frac{4}{5}$  is equivalent to which fraction?

$\frac{19}{5}$

$\frac{19}{4}$

$\frac{12}{5}$

$\frac{11}{4}$

**15.** The improper fraction  $\frac{9}{4}$  is equivalent to which mixed number or fraction?

$1\frac{1}{4}$

$1\frac{2}{4}$

$2\frac{1}{4}$

$\frac{4}{9}$



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(continued)

Questions 16-18: Add and subtract the mixed numbers.

**16.**

$$\begin{array}{r} 4 \frac{2}{3} \\ + 1 \frac{2}{3} \\ \hline \end{array}$$

Answer: 6  $\frac{1}{3}$

**17.**

$$\begin{array}{r} 5 \frac{4}{5} \\ - 3 \frac{1}{5} \\ \hline \end{array}$$

Answer: 2  $\frac{3}{5}$

**18.**

$$\begin{array}{r} 4 \frac{2}{5} \\ - 2 \frac{3}{5} \\ \hline \end{array}$$

Answer: 1  $\frac{4}{5}$



Please stop, put your pencil down and wait for the next directions.

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(continued)

Questions 19-21: Multiply the fraction and whole number.

19.  $\frac{1}{3} \times 4$  is equivalent to which expression?

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

$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$

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

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

20. Multiply:

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

$\frac{1}{12}$

$\frac{12}{1}$

$\frac{3}{4}$

$\frac{4}{3}$

21. Multiply:

$$4 \times \frac{5}{6}$$

$\frac{20}{6}$

$\frac{5}{24}$

$\frac{24}{5}$

$\frac{20}{24}$



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(continued)

Questions 22-24: Add and subtract the mixed numbers.

22.

$$\begin{array}{r} 2\frac{3}{4} \\ + 1\frac{3}{5} \\ \hline \end{array}$$

Answer: 4  $\frac{7}{20}$

23.

$$\begin{array}{r} 7 \\ - 2\frac{3}{5} \\ \hline \end{array}$$

Answer: 4  $\frac{2}{5}$

24.

$$\begin{array}{r} 8\frac{2}{5} \\ - 3\frac{1}{2} \\ \hline \end{array}$$

Answer: 4  $\frac{9}{10}$



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and wait for the next directions.





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(continued)

Questions 25-27: Multiply the fractions.

25.

$$\frac{1}{3} \times \frac{2}{5}$$

Answer:  $\frac{2}{15}$

26.

$$\frac{7}{8} \times \frac{3}{5}$$

Answer:  $\frac{21}{40}$

27.

$$\frac{3}{4} \times \frac{2}{7}$$

Answer:  $\frac{3}{14}$



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(continued)

Questions 28-30: Divide the fractions by whole numbers.

28.

$$\frac{1}{9} \div 3$$

Answer:  $\frac{1}{27}$

29.

$$\frac{1}{4} \div 8$$

Answer:  $\frac{1}{32}$

30.

$$\frac{1}{10} \div 2$$

Answer:  $\frac{1}{20}$



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(continued)

Questions 31-33: Write the answer to each division problem.

31.

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

Answer: 24

32.

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

Answer: 16

33.

$$7 \div \frac{1}{4}$$

Answer: 28/1



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Questions 34-36: Multiply and divide fractions.

34.

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

Answer:  $\frac{5}{9}$

35.

$$\frac{3}{4} \div \frac{5}{7}$$

Answer:  $\frac{21}{20}$

36.

$$\frac{7}{8} \div \frac{1}{2}$$

Answer:  $\frac{7}{4}$



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