

# Fraction Concepts Screener - Spring

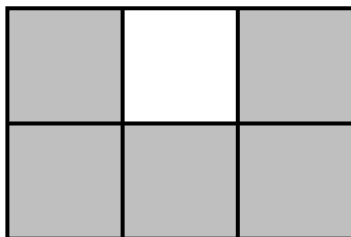
## Answer Key

Questions 1-3: Find the fraction.

1. Which fraction has a denominator of 2 and a numerator of 3?

- $\frac{2}{5}$      
   $\frac{3}{5}$      
   $\frac{3}{2}$      
   $\frac{2}{3}$

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



- $\frac{1}{6}$      
   $\frac{5}{6}$      
   $\frac{1}{5}$      
   $\frac{5}{1}$

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



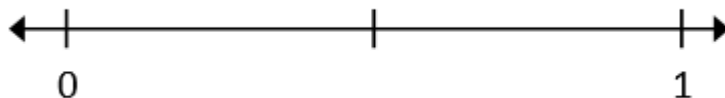
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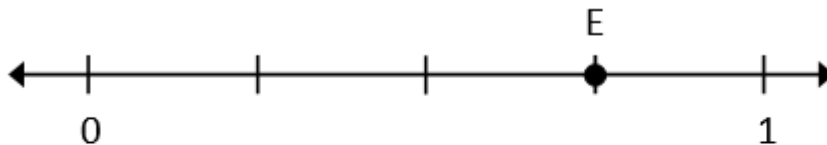
Questions 4-6: Find the fractional parts on the number line.

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



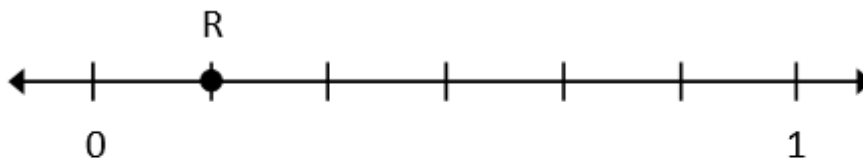
- Halves     
  Thirds     
  Fourths     
  Fifths

5. What fraction is shown by point E?



- $\frac{4}{5}$      
   $\frac{3}{5}$      
   $\frac{3}{4}$      
   $\frac{3}{1}$

6. What fraction is shown by point R?



- $\frac{1}{7}$      
   $\frac{2}{7}$      
   $\frac{2}{6}$      
   $\frac{1}{6}$



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(continued)

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

7.

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

Answer:

8.

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

Answer:

9.

$$\frac{5}{7} \quad \underline{\hspace{1cm}} \quad \frac{5}{6}$$

Answer:



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(continued)

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

10.

$$\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{3}{8}$$

Answer: >

11.

$$\frac{2}{5} \quad \underline{\hspace{1cm}} \quad \frac{8}{20}$$

Answer: =

12.

$$\frac{3}{7} \quad \underline{\hspace{1cm}} \quad \frac{4}{9}$$

Answer: <



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(continued)

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

**13.** The mixed number  $4\frac{1}{2}$  is equivalent to which expression?

$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2}$

$4 \times \frac{1}{2}$

$2 + \frac{1}{4}$

$\frac{2}{2} + \frac{2}{2} + \frac{2}{2} + \frac{2}{2} + \frac{1}{2}$

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

$\frac{11}{4}$

$\frac{11}{3}$

$\frac{6}{4}$

$\frac{9}{4}$

**15.** The improper fraction  $\frac{14}{3}$  is equivalent to which mixed number or fraction?

$\frac{3}{14}$

$4\frac{1}{3}$

$4\frac{2}{3}$

$3\frac{2}{3}$



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(continued)

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

**16.**

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

Answer: 8  $\frac{1}{4}$

**17.**

$$\begin{array}{r} 6 \frac{2}{3} \\ - 4 \frac{1}{3} \\ \hline \end{array}$$

Answer: 2  $\frac{1}{3}$

**18.**

$$\begin{array}{r} 7 \frac{2}{5} \\ - 2 \frac{4}{5} \\ \hline \end{array}$$

Answer: 4  $\frac{3}{5}$



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(continued)

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

19.  $\frac{2}{3} \times 4$  is equivalent to which expression?

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

$\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3}$         $\frac{2}{3} \times \frac{1}{4}$

20. Multiply:

$$5 \times \frac{1}{4}$$

- $\frac{5}{4}$      
  $\frac{4}{5}$      
  $\frac{1}{20}$      
  $\frac{20}{1}$

21. Multiply:

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

- $\frac{4}{15}$      
  $\frac{12}{5}$      
  $\frac{12}{15}$      
  $\frac{15}{4}$



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(continued)

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

**22.**

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

Answer: 8  $\frac{1}{10}$

**23.**

$$\begin{array}{r} 8 \\ - 2 \frac{1}{6} \\ \hline \end{array}$$

Answer: 5  $\frac{5}{6}$

**24.**

$$\begin{array}{r} 6 \frac{1}{5} \\ - 1 \frac{2}{3} \\ \hline \end{array}$$

Answer: 4  $\frac{8}{15}$



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(continued)

Questions 25-27: Multiply the fractions.

25.

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

Answer: 2/15

26.

$$\frac{6}{7} \times \frac{2}{5}$$

Answer: 12/35

27.

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

Answer: 1/3



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(continued)

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

28.

$$\frac{1}{6} \div 3$$

Answer: 1/18

29.

$$\frac{1}{9} \div 5$$

Answer: 1/45

30.

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

Answer: 1/56



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(continued)

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

31.

$$11 \div \frac{1}{3}$$

Answer: 33

32.

$$5 \div \frac{1}{4}$$

Answer: 20

33.

$$9 \div \frac{1}{6}$$

Answer: 54/1



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(continued)

Questions 34-36: Multiply and divide fractions.

34.

$$\frac{3}{5} \times \frac{2}{9}$$

Answer: 2/15

35.

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

Answer: 9/8

36.

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

Answer: 10/7



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