

Fraction Concepts: Fall Progress

Answer Key

Questions 1-3: Find the fraction.

1. Which fraction has a denominator of 3 and a numerator of 7?

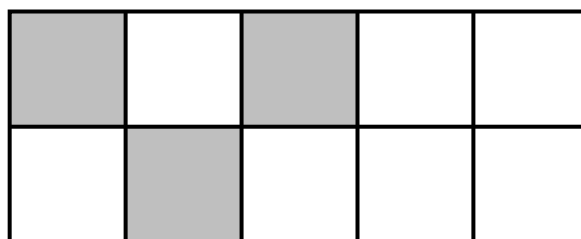
- $\frac{7}{3}$

 $\frac{7}{10}$

 $\frac{3}{7}$

 $\frac{3}{10}$

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



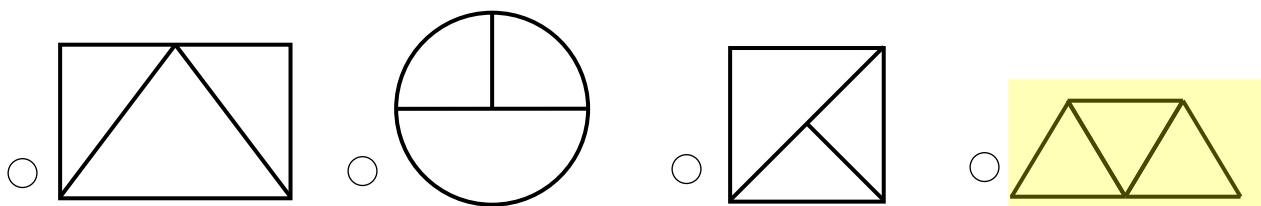
- $\frac{3}{10}$

 $\frac{7}{10}$

 $\frac{3}{7}$

 $\frac{7}{3}$

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



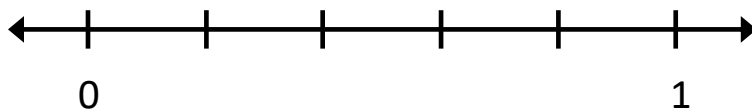
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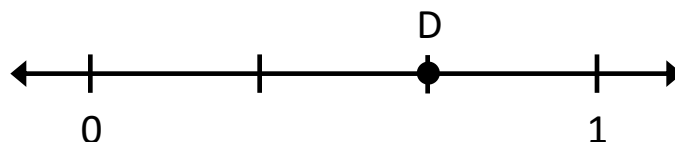
Questions 4-6: Find the fractional parts on the number line.

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



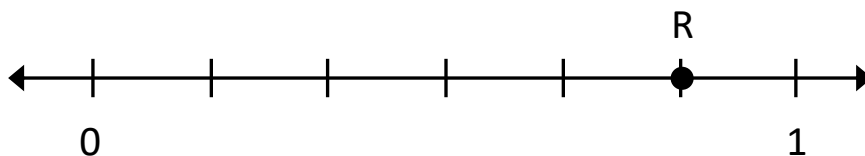
- Fifths**
 Fourths
 Sixths
 Sevenths

5. What fraction is shown by point D?



- $\frac{2}{3}$**
 $\frac{1}{3}$
 $\frac{3}{3}$
 $\frac{3}{4}$

6. What fraction is shown by point R?



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



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



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(continued)

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

7.

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

Answer: >

8.

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

Answer: <

9.

$$\frac{7}{8} \quad \underline{\hspace{1cm}} \quad \frac{7}{9}$$

Answer: >



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

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

10.

$$\frac{2}{3} \quad \text{—} \quad \frac{3}{5}$$

Answer: >

11.

$$\frac{3}{4} \quad \text{—} \quad \frac{5}{6}$$

Answer: <

12.

$$\frac{2}{5} \quad \text{—} \quad \frac{8}{20}$$

Answer: =



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

13. The mixed number $4\frac{1}{3}$ is equivalent to which expression?

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

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

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

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

14. The mixed number $3\frac{5}{6}$ is equivalent to which fraction?

$\frac{23}{6}$

$\frac{23}{5}$

$\frac{18}{5}$

$\frac{15}{6}$

15. The improper fraction $\frac{13}{3}$ is equivalent to which mixed number or fraction?

$3\frac{1}{3}$

$4\frac{2}{3}$

$4\frac{1}{3}$

$\frac{3}{13}$



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

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(continued)

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

16.

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

Answer: $6\frac{2}{5}$

17.

$$\begin{array}{r} 4\frac{5}{6} \\ - 1\frac{4}{6} \\ \hline \end{array}$$

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

18.

$$\begin{array}{r} 4\frac{1}{7} \\ - 2\frac{3}{7} \\ \hline \end{array}$$

Answer: $1\frac{5}{7}$



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

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

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

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

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

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

20. Multiply:

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

$\frac{1}{15}$

$\frac{15}{1}$

$\frac{3}{5}$

$\frac{5}{3}$

21. Multiply:

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

$\frac{15}{6}$

$\frac{5}{18}$

$\frac{18}{5}$

$\frac{15}{18}$



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

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(continued)

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

22.

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

Answer: $6 \frac{7}{15}$

23.

$$\begin{array}{r} 8 \\ - 3 \frac{5}{6} \\ \hline \end{array}$$

Answer: $4 \frac{1}{6}$

24.

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

Answer: $5 \frac{9}{10}$



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Questions 25-27: Multiply the fractions.

25.

$$\frac{1}{4} \times \frac{3}{8}$$

Answer: $\frac{3}{32}$

26.

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

Answer: $\frac{5}{7}$

27.

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

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



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

28.

$$\frac{1}{6} \div 2$$

Answer: $\frac{1}{12}$

29.

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

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

30.

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

Answer: $\frac{1}{16}$



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

31.

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

Answer: 32

32.

$$6 \div \frac{1}{2}$$

Answer: 12

33.

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

Answer: 27



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Questions 34-36: Multiply and divide fractions.

34.

$$\frac{3}{5} \times \frac{7}{9}$$

Answer: $\frac{7}{15}$

35.

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

Answer: $\frac{16}{15}$

36.

$$\frac{6}{7} \div \frac{2}{3}$$

Answer: $\frac{9}{7}$



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