

Fraction Concepts Screener - Winter

Questions 1-3: Find the fraction.

1. Which fraction has a denominator of 7 and a numerator of 5?

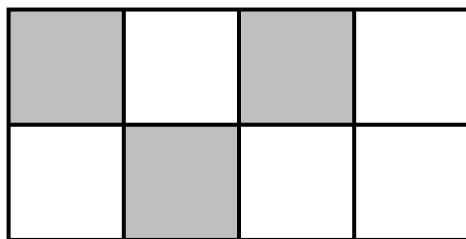
$\frac{7}{5}$

$\frac{5}{7}$

$\frac{5}{12}$

$\frac{7}{12}$

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



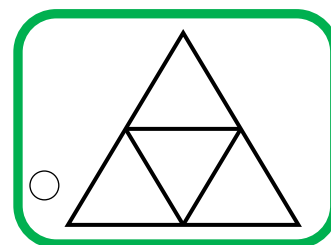
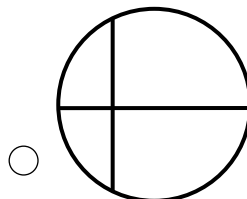
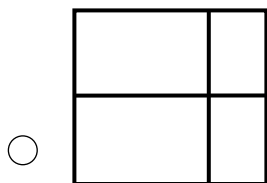
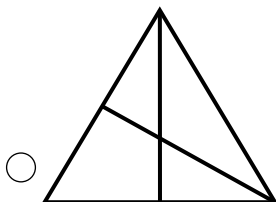
$\frac{5}{8}$

$\frac{3}{5}$

$\frac{3}{8}$

$\frac{5}{3}$

3. Which diagram appears to show fractional parts of $\frac{1}{4}$?



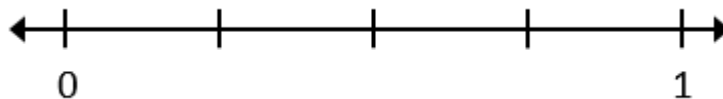
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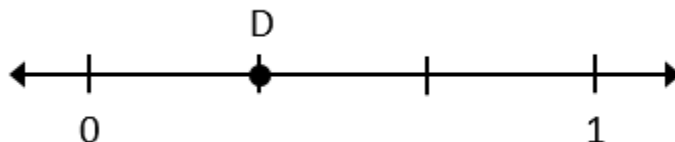
Questions 4-6: Find the fractional parts on the number line.

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



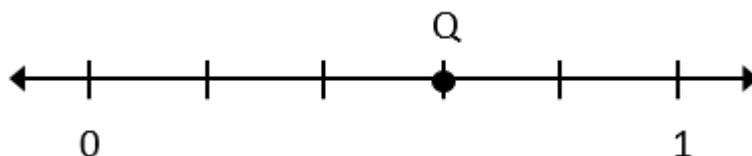
- Halves
 Thirds
 Fourths
 Fifths

5. What fraction is shown by point D?



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

6. What fraction is shown by point Q?



- $\frac{4}{6}$
 $\frac{3}{6}$
 $\frac{4}{5}$
 $\frac{3}{5}$



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(continued)

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

7.

$$\frac{5}{6} \quad \underline{\hspace{1cm}} \quad \frac{3}{6}$$

Answer: >

8.

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

Answer: <

9.

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

Answer: <



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(continued)

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

10.

$$\frac{4}{5} \quad \text{—} \quad \frac{5}{9}$$

Answer: >

11.

$$\frac{3}{4} \quad \text{—} \quad \frac{15}{20}$$

Answer: =

12.

$$\frac{4}{7} \quad \text{—} \quad \frac{5}{9}$$

Answer: >



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(continued)

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

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

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

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

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

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

14. The mixed number $2\frac{5}{6}$ is equivalent to which fraction?

$\frac{13}{6}$

$\frac{10}{6}$

$\frac{17}{5}$

$\frac{17}{6}$

15. The improper fraction $\frac{13}{5}$ is equivalent to which mixed number or fraction?

$1\frac{3}{5}$

$2\frac{3}{5}$

$3\frac{2}{5}$

$\frac{5}{13}$



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(continued)

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

16.

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

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

17.

$$\begin{array}{r} 6 \frac{5}{7} \\ - 3 \frac{1}{7} \\ \hline \end{array}$$

Answer: $3 \frac{4}{7}$

18.

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

Answer: $4 \frac{2}{3}$



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(continued)

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

19. $\frac{1}{2} \times 3$ is equivalent to which expression?

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

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

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

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

20 Multiply:

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

$\frac{1}{12}$

$\frac{12}{1}$

$\frac{3}{4}$

$\frac{4}{3}$

21. Multiply:

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

$\frac{20}{3}$

$\frac{15}{20}$

$\frac{15}{4}$

$\frac{3}{20}$



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(continued)

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

22.

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

Answer: $7 \frac{1}{12}$

Answer: _____

23.

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

Answer: $3 \frac{1}{4}$

Answer: _____

24.

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

Answer: $3 \frac{5}{6}$

Answer: _____



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(continued)

Questions 25-27: Multiply the fractions.

25.

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

Answer: $\frac{3}{20}$

26.

$$\frac{5}{6} \times \frac{1}{7}$$

Answer: $\frac{5}{42}$

27.

$$\frac{2}{3} \times \frac{5}{8}$$

Answer: $\frac{5}{12}$



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(continued)

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

28.

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

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

29.

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

Answer: $\frac{1}{18}$

30.

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

Answer: $\frac{5}{14}$



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(continued)

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

31.

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

Answer: 20

32.

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

Answer: 18

33.

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

Answer: 20



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Questions 34-36: Multiply and divide fractions.

34.

$$\frac{2}{5} \times \frac{3}{4}$$

$$\frac{3}{10}$$

Answer: _____

35.

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

$$\frac{5}{6}$$

Answer: _____

36.

$$\frac{5}{6} \div \frac{1}{3}$$

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

Answer: _____



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