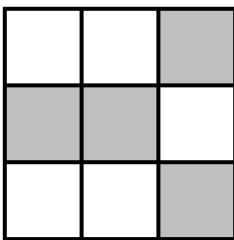# Fraction Concepts Screener - Fall

Questions 1-3: Find the fraction.

1. Which fraction has a denominator of 6 and a numerator of 4?
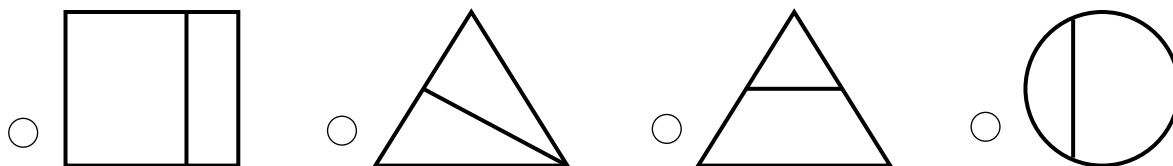
    ○ $\dfrac{4}{10}$ ○ $\dfrac{6}{10}$ ○ $\dfrac{6}{4}$ ○ $\dfrac{4}{6}$

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

    ○ $\dfrac{4}{9}$ ○ $\dfrac{5}{9}$ ○ $\dfrac{4}{5}$ ○ $\dfrac{5}{4}$

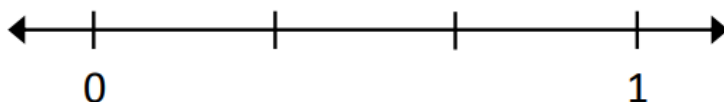**3.** Which diagram appears to show fractional parts of $\dfrac{1}{2}$?

STOP

Please stop, put your pencil down and wait for the next directions.
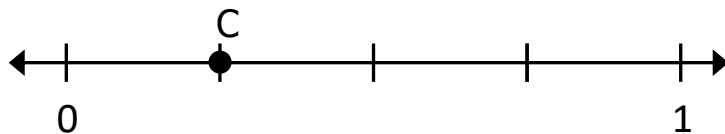
Number Correct = _____

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

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

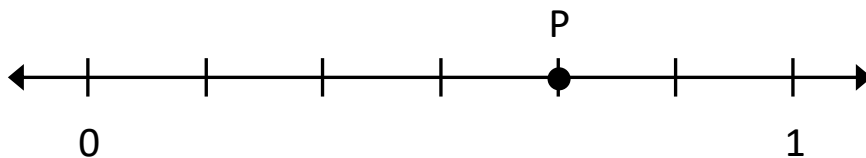○ Halves   ○ Thirds   ○ Fourths   ○ Fifths

5. What fraction is shown by point C?

○ $\dfrac{2}{4}$ ○ $\dfrac{1}{4}$ ○ $\dfrac{1}{5}$ ○ $\dfrac{2}{5}$

6. What fraction is shown by point P?

○ $\dfrac{4}{7}$ ○ $\dfrac{5}{7}$ ○ $\dfrac{5}{6}$ ○ $\dfrac{4}{6}$

STOP

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

Number Correct = _____

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

7.

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

Answer: _____

8.

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

Answer: _____

9.

$$\frac{3}{5} \underline{\hspace{2cm}} \frac{3}{4}$$

Answer: _____

STOP

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

Number Correct = _____

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

10.

$$\frac{3}{5} \rule{2cm}{0.4pt} \frac{4}{9}$$

Answer: _____

11.

$$\frac{2}{3} \rule{2cm}{0.4pt} \frac{6}{9}$$

Answer: _____

12.

$$\frac{3}{4} \rule{2cm}{0.4pt} \frac{5}{7}$$

Answer: _____

STOP

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

Number Correct = _____

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?

- ○ $1\frac{1}{4}$
- ○ $1\frac{2}{4}$
- ○ $2\frac{1}{4}$
- ○ $\frac{4}{9}$

STOP

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

Number Correct = _____

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

16.

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

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

Answer: _____

17.

$$5 \frac{4}{5}$$

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

Answer: _____

18.

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

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

Answer: _____

STOP

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

Number Correct = _____

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

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

○ $\frac{1}{3}$ x $\frac{1}{4}$

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

○ 4 + $\frac{1}{3}$

○ $\frac{1}{3}$ x $\frac{1}{3}$ x $\frac{1}{3}$ x $\frac{1}{3}$

20. Multiply:

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

○ $\frac{1}{12}$

○ $\frac{12}{1}$

○ $\frac{3}{4}$

○ $\frac{4}{3}$

21. Multiply:

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

○ $\frac{20}{6}$

○ $\frac{5}{24}$

○ $\frac{24}{5}$

○ $\frac{20}{24}$

STOP

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

Number Correct = _____

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

22.

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

$$+\,1\,\frac{3}{5}$$

_____

Answer: _____

23.

$$7$$

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

_____

Answer: _____

24.

$$8\,\frac{2}{5}$$

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

_____

Answer: _____

STOP

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

Number Correct = _____

Questions 25-27: Multiply the fractions.

25.

$$\frac{1}{3} \quad X \quad \frac{2}{5}$$

Answer: _____

26.

$$\frac{7}{8} \quad X \quad \frac{3}{5}$$

Answer: _____

27.

$$\frac{3}{4} \quad X \quad \frac{2}{7}$$

Answer: _____

STOP

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

Number Correct = _____

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

28.

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

Answer: _____

29.

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

Answer: _____

30.

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

Answer: _____

STOP

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

Number Correct = _____

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

31.

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

Answer: _____

32.

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

Answer: _____

33.

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

Answer: _____

STOP

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

Number Correct = _____

Questions 34-36: Multiply and divide fractions.

34.

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

Answer: _____

35.

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

Answer: _____

36.

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

Answer: _____

STOP

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

Number Correct = _____