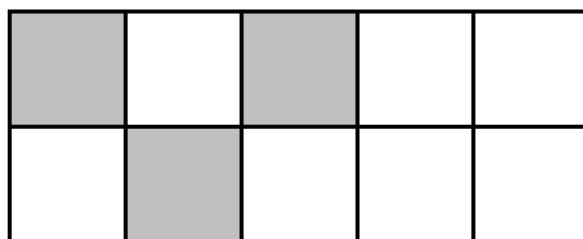# Fraction Concepts: Winter Progress

Questions 1-3: Find the fraction.

1. Which fraction has a denominator of 3 and a numerator of 7?
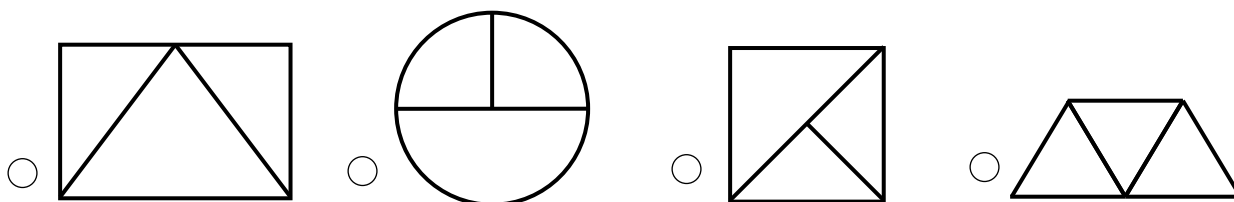
○ $\dfrac{7}{3}$ ○ $\dfrac{7}{10}$ ○ $\dfrac{3}{7}$ ○ $\dfrac{3}{10}$

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

○ $\dfrac{3}{10}$ ○ $\dfrac{7}{10}$ ○ $\dfrac{3}{7}$ ○ $\dfrac{7}{3}$
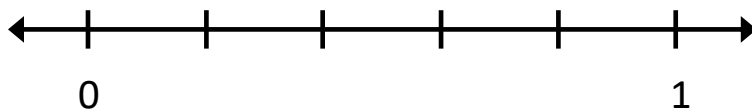
3. Which diagram appears to show fractional parts of $\dfrac{1}{3}$?

○   ○   ○   ○

STOP

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

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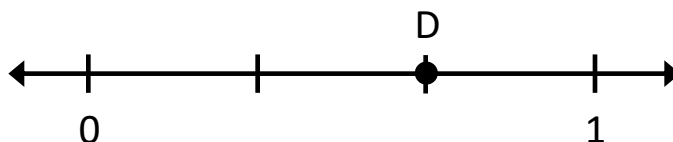
Questions 4-6: Find the fractional parts on the number line.

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

0   1

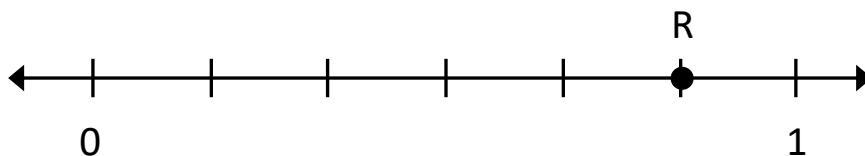○ Fifths   ○ Fourths   ○ Sixths   ○ Sevenths

5. What fraction is shown by point D?

D

0   1

6. What fraction is shown by point R?

R

0   1

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

STOP

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

Number Correct = _____

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

7.

$$\frac{5}{7} \ \underline{\hspace{2cm}} \ \frac{3}{7}$$

Answer: _____

8.

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

Answer: _____

9.

$$\frac{7}{8} \ \underline{\hspace{2cm}} \ \frac{7}{9}$$

Answer: _____

STOP

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

Number Correct = _____

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

10.

$$\frac{2}{3} \quad \underline{\quad\quad} \quad \frac{3}{5}$$

Answer: _____

11.

$$\frac{3}{4} \quad \underline{\quad\quad} \quad \frac{5}{6}$$

Answer: _____

12.

$$\frac{2}{5} \quad \underline{\quad\quad} \quad \frac{8}{20}$$

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

○ $3\frac{1}{3}$

○ $4\frac{2}{3}$

○ $4\frac{1}{3}$

○ $\frac{3}{13}$

STOP

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

Number Correct = _____

Fraction Concepts: Winter Progress

(continued)

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

16.

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

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

Answer: _____

17.

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

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

Answer: _____

18.

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

$$- 2 \frac{3}{7}$$

Answer: _____

STOP

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

Number Correct = _____

Fraction Concepts: Winter Progress

(continued)

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

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

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

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

20. Multiply:

$$5 \; x \; \frac{1}{3}$$

○ $\frac{1}{15}$ ○ $\frac{15}{1}$ ○ $\frac{3}{5}$ ○ $\frac{5}{3}$

21. Multiply:

$$3 \; x \; \frac{5}{6}$$

○ $\frac{15}{6}$ ○ $\frac{5}{18}$ ○ $\frac{18}{5}$ ○ $\frac{15}{18}$

STOP

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

Number Correct = _____

Fraction Concepts: Winter Progress
(continued)

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

22.

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

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

_____

Answer: _____

23.

$$8$$

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

_____

Answer: _____

24.

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

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

_____

Answer: _____

STOP

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

Number Correct = _____

Questions 25-27: Multiply the fractions.

25.

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

Answer: _____

26.

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

Answer: _____

27.

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

Answer: _____

STOP

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

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

28.

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

Answer: _____

29.

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

Answer: _____

30.

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

Answer: _____

STOP

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

Fraction Concepts: Winter Progress

(continued)

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

31.

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

Answer: _____

32.

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

Answer: _____

33.

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

Answer: _____

STOP

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

Number Correct = _____

Fraction Concepts: Winter Progress

(continued)

Questions 34-36: Multiply and divide fractions.

34.

$$\frac{3}{5} \quad \text{x} \quad \frac{7}{9}$$

Answer: _____

35.

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

Answer: _____

36.

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

Answer: _____

STOP

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

Number Correct = _____