Name _____ Date _____

6th Grade Tier 3 Screener - Fall
Answer Key

Questions 1-3: Add the multi-digit numbers.

1.

$$\begin{array}{r} 372 \\ +214 \\ \hline \end{array}$$

Answer: 586

2.

$637 + 156 = \_\_\_\_\_$

Answer: 793

3.

$$\begin{array}{r} 168 \\ +395 \\ \hline \end{array}$$

Answer: 563

STOP

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

Number Correct = _____

6th Grade Tier 3 Screener - Fall

(continued)

Questions 4-6: Subtract the multi-digit numbers.

4.

$$\begin{array}{r} 600 \\ -\,128 \\ \hline \end{array}$$

Answer: 472

5.

$438 - 163 = \_\_\_\_\_$

Answer: 275

6.

$$\begin{array}{r} 835 \\ -\,367 \\ \hline \end{array}$$

Answer: 468

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

Number Correct = _____

6th Grade Tier 3 Screener - Fall

(continued)

Questions 7-9: Multiply the multi-digit numbers.

7.

$$\begin{array}{r} 396 \\ \times\ \ 4 \\ \hline \end{array}$$

Answer: 1584

8.

$$\begin{array}{r} 3572 \\ \times\ \ \ \ 6 \\ \hline \end{array}$$

Answer: 21432

9.

$$\begin{array}{r} 64 \\ \times\ 13 \\ \hline \end{array}$$

Answer: 832

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

Number Correct = _____

6th Grade Tier 3 Screener - Fall

(continued)

Questions 10-12: Multiply the multi-digit numbers. **(Note: It is possible to have a remainder.)**

10.

$4\overline{)29}$

Answer: 7 R1

11.

$7\overline{)406}$

Answer: 58

12.

$5\overline{)8,710}$

Answer: 1742

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

Number Correct = _____

6th Grade Tier 3 Screener - Fall

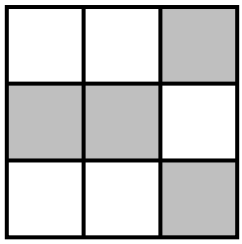
(continued)

Questions 13-15: Find the fraction.

13. Which fraction has a denominator of 6 and a numerator of 4?

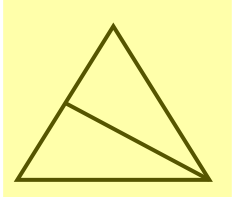
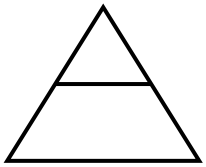
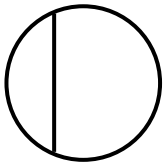
○ $\frac{4}{10}$ ○ $\frac{6}{10}$ ○ $\frac{6}{4}$ ○ $\frac{4}{6}$

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



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

15. Which diagram appears to show fractional parts of $\frac{1}{2}$?

○  ○  ○  ○ 

STOP

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

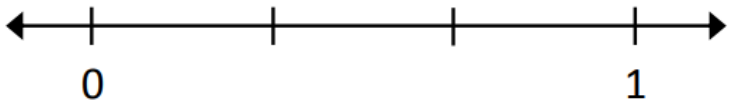
Number Correct = _____

6th Grade Tier 3 Screener - Fall

(continued)

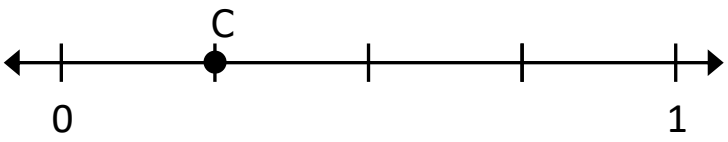
Questions 16-18: Find the fractional parts on the number line.

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



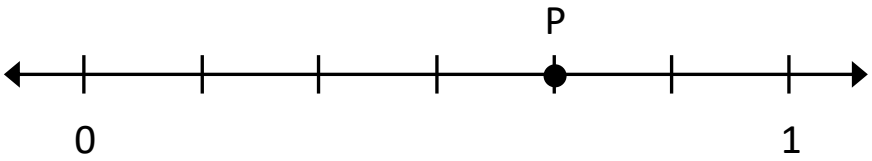
○ Halves ○ Thirds ○ Fourths ○ Fifths

17. What fraction is shown by point C?



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

18. What fraction is shown by point P?



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

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

Number Correct = _____

6th Grade Tier 3 Screener - Fall

(continued)

Questions 19-21: Compare the fractions. **(>, <, =)**

19.

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

Answer: <

20.

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

Answer: >

21.

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

Answer: <

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

Number Correct = _____

6th Grade Tier 3 Screener - Fall

(continued)

Questions 22-24: Compare the two fractions. **(<, >, =)**

22.

$$\frac{3}{5} \quad \_\_\_\_\_ \quad \frac{4}{9}$$

Answer: >

23.

$$\frac{2}{3} \quad \_\_\_\_\_ \quad \frac{6}{9}$$

Answer: =

24.

$$\frac{3}{4} \quad \_\_\_\_\_ \quad \frac{5}{7}$$

Answer: >

STOP

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

Number Correct = _____

6th Grade Tier 3 Screener - Fall

(continued)

Questions 25-27: Find equal values of the mixed number and improper fraction.

25. The mixed number $4\frac{2}{3}$ is equivalent to which expression?

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

26. The mixed number $3\frac{4}{5}$ is equivalent to which fraction?

- ○ $\frac{19}{5}$
- ○ $\frac{19}{4}$
- ○ $\frac{12}{5}$
- ○ $\frac{11}{4}$

27. 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 = _____

6th Grade Tier 3 Screener - Fall

(continued)

Questions 28-30: Add and subtract the mixed numbers.

28.

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

Answer: 6 1/3

29.

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

Answer: 2 3/5

30.

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

Answer: 1 4/5

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

Number Correct = _____

6th Grade Tier 3 Screener - Fall

(continued)

Questions 31-33: Multiply the fraction and whole number.

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

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

32. Multiply:

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

- ○ $\frac{1}{12}$
- ○ $\frac{12}{1}$
- ○ $\frac{3}{4}$
- ○ $\frac{4}{3}$

33. Multiply:

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

- ○ $\frac{20}{6}$
- ○ $\frac{5}{24}$
- ○ $\frac{24}{5}$
- ○ $\frac{20}{24}$

STOP

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

Number Correct = _____

6th Grade Tier 3 Screener - Fall

(continued)

Questions 34: When you are told to begin, answer as many as you can in 1 minute.

$6 \times 4 = 24$	$7 \times 3 = 21$
$7 \times 0 = 0$	$3 \times 9 = 27$
$8 \times 6 = 48$	$9 \times 7 = 63$
$2 \times 4 = 8$	$7 \times 7 = 49$
$9 \times 6 = 54$	$1 \times 8 = 8$
$5 \times 10 = 50$	$4 \times 8 = 32$
$9 \times 5 = 45$	$6 \times 2 = 12$

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

Number Correct = _____

6th Grade Tier 3 Screener - Fall

(continued)

Questions 35: When you are told to begin, answer as many as you can in 1 minute.

$30 \div 5 = 6$	$10 \div 2 = 5$
$42 \div 6 = 7$	$24 \div 3 = 8$
$40 \div 8 = 5$	$72 \div 9 = 8$
$18 \div 6 = 3$	$28 \div 4 = 7$
$54 \div 6 = 9$	$50 \div 10 = 5$
$28 \div 7 = 4$	$64 \div 8 = 8$
$14 \div 7 = 2$	$36 \div 4 = 9$

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

Number Correct = _____