



Name \_\_\_\_\_ Date \_\_\_\_\_

## 6<sup>th</sup> Grade Tier 3 Screener - Fall

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

1.

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

Answer: \_\_\_\_\_

2.

$$637 + 156 = \underline{\quad}$$

Answer: \_\_\_\_\_

3.

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

Answer: \_\_\_\_\_



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



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(continued)

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

4.

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

Answer: \_\_\_\_\_

5.

$$438 - 163 = \underline{\hspace{2cm}}$$

Answer: \_\_\_\_\_

6.

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

Answer: \_\_\_\_\_



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

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

7.

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

Answer: \_\_\_\_\_

8.

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

Answer: \_\_\_\_\_

9.

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

Answer: \_\_\_\_\_



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

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(continued)

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

**10.**

$$4 \overline{)29}$$

Answer: \_\_\_\_\_

**11.**

$$7 \overline{)406}$$

Answer: \_\_\_\_\_

**12.**

$$5 \overline{)8,710}$$

Answer: \_\_\_\_\_



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

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Questions 13-15: Find the fraction.

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

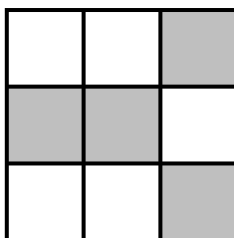
$\frac{4}{10}$

$\frac{6}{10}$

$\frac{6}{4}$

$\frac{4}{6}$

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



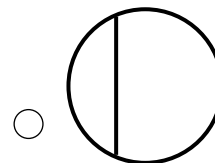
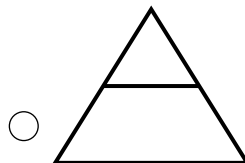
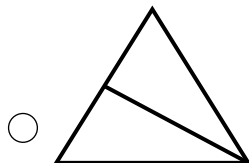
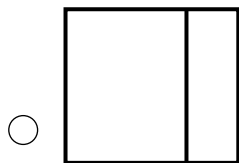
$\frac{4}{9}$

$\frac{5}{9}$

$\frac{4}{5}$

$\frac{5}{4}$

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



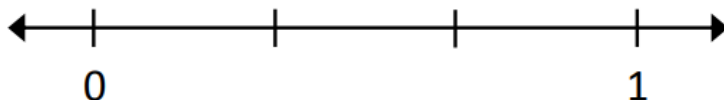
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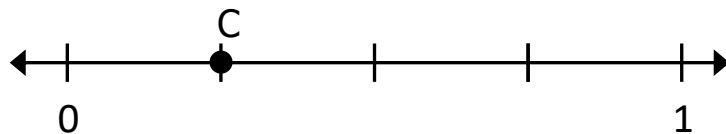
**Questions 16-18:** Find the fractional parts on the number line.

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



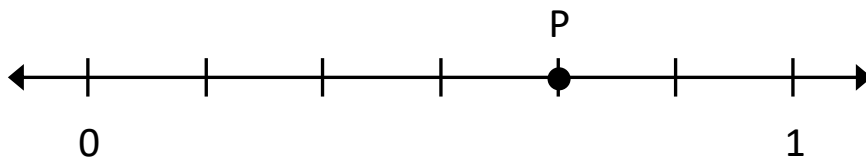
- Halves     
  Thirds     
  Fourths     
  Fifths

**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.



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(continued)

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

19.

$$\frac{2}{5} \quad \underline{\hspace{1cm}} \quad \frac{4}{5}$$

Answer: \_\_\_\_\_

20.

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

Answer: \_\_\_\_\_

21.

$$\frac{3}{5} \quad \underline{\hspace{1cm}} \quad \frac{3}{4}$$

Answer: \_\_\_\_\_



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



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

22.

$$\frac{3}{5} \quad \underline{\hspace{1cm}} \quad \frac{4}{9}$$

Answer: \_\_\_\_\_

23.

$$\frac{2}{3} \quad \underline{\hspace{1cm}} \quad \frac{6}{9}$$

Answer: \_\_\_\_\_

24.

$$\frac{3}{4} \quad \underline{\hspace{1cm}} \quad \frac{5}{7}$$

Answer: \_\_\_\_\_



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



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**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?

$1\frac{1}{4}$

$1\frac{2}{4}$

$2\frac{1}{4}$

$\frac{4}{9}$



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

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

**28.**

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

Answer: \_\_\_\_\_

**29.**

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

Answer: \_\_\_\_\_

**30.**

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

Answer: \_\_\_\_\_



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

**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:

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

$\frac{20}{6}$

$\frac{5}{24}$

$\frac{24}{5}$

$\frac{20}{24}$



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



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

$6 \times 4 = \underline{\quad}$

$7 \times 3 = \underline{\quad}$

$7 \times 0 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$

$8 \times 6 = \underline{\quad}$

$9 \times 7 = \underline{\quad}$

$2 \times 4 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$9 \times 6 = \underline{\quad}$

$1 \times 8 = \underline{\quad}$

$5 \times 10 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$

$9 \times 5 = \underline{\quad}$

$6 \times 2 = \underline{\quad}$



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



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

$30 \div 5 = \underline{\quad}$

$10 \div 2 = \underline{\quad}$

$42 \div 6 = \underline{\quad}$

$24 \div 3 = \underline{\quad}$

$40 \div 8 = \underline{\quad}$

$72 \div 9 = \underline{\quad}$

$18 \div 6 = \underline{\quad}$

$28 \div 4 = \underline{\quad}$

$54 \div 6 = \underline{\quad}$

$50 \div 10 = \underline{\quad}$

$28 \div 7 = \underline{\quad}$

$64 \div 8 = \underline{\quad}$

$14 \div 7 = \underline{\quad}$

$36 \div 4 = \underline{\quad}$



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