



Name _____ Date _____

6th Grade Tier 3 Screener - Spring

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

1.

$$\begin{array}{r} 361 \\ + 235 \\ \hline \end{array}$$

Answer: _____

2.

$$528 + 364 = \underline{\quad}$$

Answer: _____

3.

$$\begin{array}{r} 259 \\ + 487 \\ \hline \end{array}$$

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.

$$\begin{array}{r} 800 \\ - 183 \\ \hline \end{array}$$

Answer: _____

5.

$$746 - 385 = \underline{\quad}$$

Answer: _____

6.

$$\begin{array}{r} 645 \\ - 297 \\ \hline \end{array}$$

Answer: _____



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

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(continued)

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

7.

$$\begin{array}{r} 327 \\ \times 6 \\ \hline \end{array}$$

Answer: _____

8.

$$\begin{array}{r} 5,274 \\ \times 3 \\ \hline \end{array}$$

Answer: _____

9.

$$\begin{array}{r} 75 \\ \times 13 \\ \hline \end{array}$$

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.

$$7 \overline{)30}$$

Answer: _____

11.

$$7 \overline{)602}$$

Answer: _____

12.

$$5 \overline{)9,130}$$

Answer: _____



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

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(continued)

Questions 13-15: Find the fraction.

13. Which fraction has a denominator of 2 and a numerator of 3?

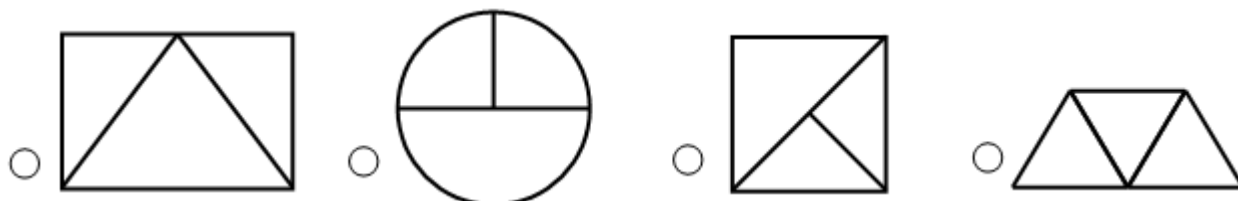
- $\frac{2}{5}$
 $\frac{3}{5}$
 $\frac{3}{2}$
 $\frac{2}{3}$

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



- $\frac{1}{6}$
 $\frac{5}{6}$
 $\frac{1}{5}$
 $\frac{5}{1}$

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



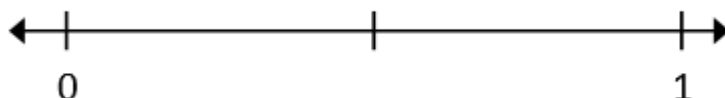
Please stop, put your pencil down and wait for the next directions.

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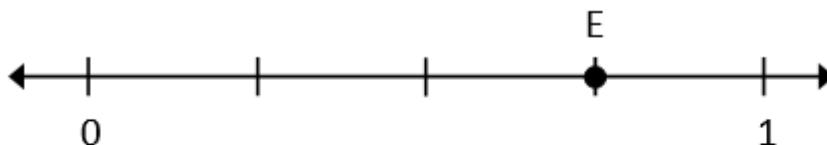
Questions 16-18: Find the fractional parts on the number line.

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



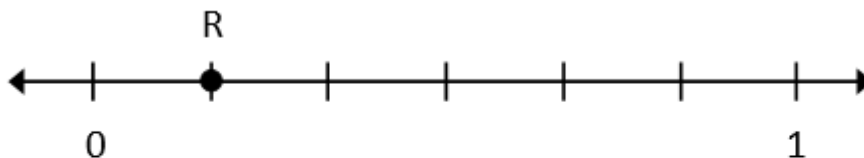
- Halves
 Thirds
 Fourths
 Fifths

17. What fraction is shown by point E?



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

18. What fraction is shown by point R?



- $\frac{1}{7}$
 $\frac{2}{7}$
 $\frac{2}{6}$
 $\frac{1}{6}$



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



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(continued)

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

19.

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

Answer: _____

20.

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

Answer: _____

21.

$$\frac{5}{7} \quad \underline{\hspace{1cm}} \quad \frac{5}{6}$$

Answer: _____



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



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(continued)

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

22.

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

Answer: _____

23.

$$\frac{2}{5} \quad \underline{\hspace{1cm}} \quad \frac{8}{20}$$

Answer: _____

24.

$$\frac{3}{7} \quad \underline{\hspace{1cm}} \quad \frac{4}{9}$$

Answer: _____



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(continued)

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

25. The mixed number $4\frac{1}{2}$ is equivalent to which expression?

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

$4 \times \frac{1}{2}$

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

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

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

$\frac{11}{4}$

$\frac{11}{3}$

$\frac{6}{4}$

$\frac{9}{4}$

27. The improper fraction $\frac{14}{3}$ is equivalent to which mixed number or fraction?

$\frac{3}{14}$

$4\frac{1}{3}$

$4\frac{2}{3}$

$3\frac{2}{3}$



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(continued)

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

28.

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

Answer: _____

29.

$$\begin{array}{r} 6 \frac{2}{3} \\ - 4 \frac{1}{3} \\ \hline \end{array}$$

Answer: _____

30.

$$\begin{array}{r} 7 \frac{2}{5} \\ - 2 \frac{4}{5} \\ \hline \end{array}$$

Answer: _____



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

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

31. $\frac{2}{3} \times 4$ is equivalent to which expression?

- | | |
|--|--|
| <input type="radio"/> $\frac{2}{3} \times \frac{2}{3} \times \frac{2}{3} \times \frac{2}{3}$ | <input type="radio"/> $4 + \frac{2}{3}$ |
| <input type="radio"/> $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3}$ | <input type="radio"/> $\frac{2}{3} \times \frac{1}{4}$ |

32. Multiply:

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

- | | | | |
|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| <input type="radio"/> $\frac{5}{4}$ | <input type="radio"/> $\frac{4}{5}$ | <input type="radio"/> $\frac{1}{20}$ | <input type="radio"/> $\frac{20}{1}$ |
|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|

33. Multiply:

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

- | | | | |
|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|
| <input type="radio"/> $\frac{4}{15}$ | <input type="radio"/> $\frac{12}{5}$ | <input type="radio"/> $\frac{12}{15}$ | <input type="radio"/> $\frac{15}{4}$ |
|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|



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(continued)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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