



Name _____ Date _____

6th Grade Tier 3 Screener - Winter

Questions 1-3: Add the numbers.

1.

$$\begin{array}{r} 483 \\ + 312 \\ \hline \end{array}$$

Answer: _____

2.

$$453 + 286 = \underline{\hspace{2cm}}$$

Answer: _____

3.

$$\begin{array}{r} 375 \\ + 486 \\ \hline \end{array}$$

Answer: _____



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



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(continued)

Questions 4-6: Subtract the numbers.

4.

$$\begin{array}{r} 700 \\ - 354 \\ \hline \end{array}$$

Answer: _____

5.

$$827 - 263 = \underline{\hspace{2cm}}$$

Answer: _____

6.

$$\begin{array}{r} 527 \\ - 149 \\ \hline \end{array}$$

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.

$$\begin{array}{r} 487 \\ \times 3 \\ \hline \end{array}$$

Answer: _____

8.

$$\begin{array}{r} 6287 \\ \times 4 \\ \hline \end{array}$$

Answer: _____

9.

$$\begin{array}{r} 63 \\ \times 15 \\ \hline \end{array}$$

Answer: _____



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



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(continued)

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

10.

$$5 \overline{)32}$$

Answer: _____

11.

$$8 \overline{)504}$$

Answer: _____

12.

$$5 \overline{)8,415}$$

Answer: _____



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

Questions 13-15: Find the fraction.

13. Which fraction has a denominator of 7 and a numerator of 5?

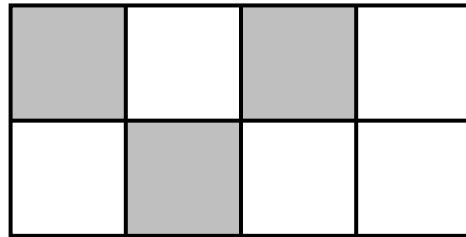
$\frac{7}{5}$

$\frac{5}{7}$

$\frac{5}{12}$

$\frac{7}{12}$

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



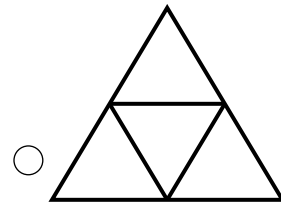
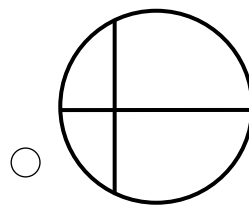
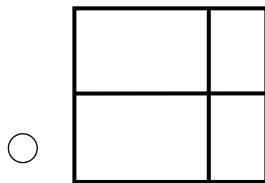
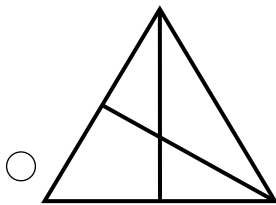
$\frac{5}{8}$

$\frac{3}{5}$

$\frac{3}{8}$

$\frac{5}{3}$

15. Which diagram appears to show fractional parts of $\frac{1}{4}$?



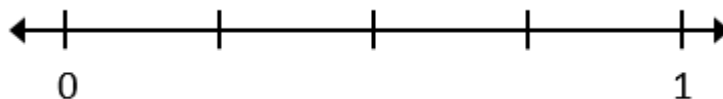
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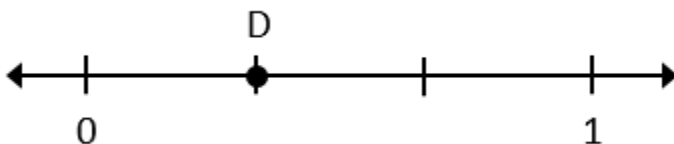
Questions 16-18: Find the fractional parts on the number line.

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



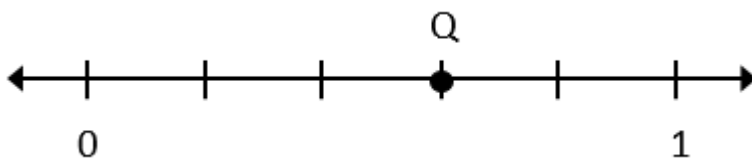
- Halves
 Thirds
 Fourths
 Fifths

17. What fraction is shown by point D?



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

18. What fraction is shown by point Q?



- $\frac{4}{6}$
 $\frac{3}{6}$
 $\frac{4}{5}$
 $\frac{3}{5}$



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



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(continued)

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

19.

$$\frac{5}{6} \quad \underline{\hspace{1cm}} \quad \frac{3}{6}$$

Answer: _____

20.

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

Answer: _____

21.

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

Answer: _____



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(continued)

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

22.

$$\frac{4}{5} \quad \text{—} \quad \frac{5}{9}$$

Answer: _____

23.

$$\frac{3}{4} \quad \text{—} \quad \frac{15}{20}$$

Answer: _____

24.

$$\frac{4}{7} \quad \text{—} \quad \frac{5}{9}$$

Answer: _____



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



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(continued)

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

25. The mixed number $3\frac{1}{4}$ is equivalent to which expression?

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

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

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

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

26. The mixed number $2\frac{5}{6}$ is equivalent to which fraction?

$\frac{13}{6}$

$\frac{10}{6}$

$\frac{17}{5}$

$\frac{17}{6}$

27. The improper fraction $\frac{13}{5}$ is equivalent to which mixed number or fraction?

$1\frac{3}{5}$

$2\frac{3}{5}$

$3\frac{2}{5}$

$\frac{5}{13}$



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(continued)

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

28.

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

Answer: _____

29.

$$\begin{array}{r} 6 \frac{5}{7} \\ - 3 \frac{1}{7} \\ \hline \end{array}$$

Answer: _____

30.

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

Answer: _____



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(continued)

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

31. $\frac{1}{2} \times 3$ is equivalent to which expression?

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

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

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

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

32. Multiply:

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

$\frac{1}{12}$

$\frac{12}{1}$

$\frac{3}{4}$

$\frac{4}{3}$

33. Multiply:

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

$\frac{20}{3}$

$\frac{15}{20}$

$\frac{15}{4}$

$\frac{3}{20}$



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Number Correct = _____



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(continued)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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



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(continued)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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