



Name _____ Date _____

7th Grade Tier 3 Screener - Winter

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

1.

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

Answer: _____

2.

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

Answer: _____

3.

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

Answer: _____



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



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

4.

$$\begin{array}{r} 2416 \\ \times \quad 3 \\ \hline \end{array}$$

Answer: _____

5.

$$\begin{array}{r} 48 \\ \times 14 \\ \hline \end{array}$$

Answer: _____

6.

$$\begin{array}{r} 638 \\ \times 14 \\ \hline \end{array}$$

Answer: _____



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(continued)

Questions 7-9: Multiply the multi-digit numbers. (Note: It is possible to have a remainder.)

7.

$$5 \overline{)32}$$

Answer: _____

8.

$$8 \overline{)504}$$

Answer: _____

9.

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

Answer: _____



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(continued)

Questions 10-12: Divide the multi-digit numbers.

10.

$$4 \overline{) 2,372}$$

Answer: _____

11.

$$5 \overline{) 7,045}$$

Answer: _____

12.

$$12 \overline{) 1,944}$$

Answer: _____



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Questions 13-15: Evaluate the expression.

13.

$$4 \times (3 + 5)$$

Answer: _____

14.

$$10 - (5 - 2)$$

Answer: _____

15.

$$(8 - 2) \times (5 + 3)$$

Answer: _____



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(continued)

Questions 16-18: Compare the two fractions. (<, >, =)

16.

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

Answer: _____

17.

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

Answer: _____

18.

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

Answer: _____



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Questions 19-21: Find equal values of the mixed number and improper fraction.

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

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

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

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

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

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

$\frac{13}{6}$

$\frac{10}{6}$

$\frac{17}{5}$

$\frac{17}{6}$

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

22.

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

Answer: _____

23.

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

Answer: _____

24.

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

Answer: _____



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Questions 25-27: Multiply the fraction and whole number.

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

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

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

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

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

26. Multiply:

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

$\frac{1}{12}$

$\frac{12}{1}$

$\frac{3}{4}$

$\frac{4}{3}$

27. Multiply:

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

$\frac{20}{3}$

$\frac{15}{20}$

$\frac{15}{4}$

$\frac{3}{20}$



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

28.

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

Answer: _____

29.

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

Answer: _____

30.

$$\begin{array}{r} 5 \frac{1}{2} \\ - 1 \frac{2}{3} \\ \hline \end{array}$$

Answer: _____



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Questions 31-33: Multiply the fractions.

31.

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

Answer: _____

32.

$$\frac{5}{6} \times \frac{1}{7}$$

Answer: _____

33.

$$\frac{2}{3} \times \frac{5}{8}$$

Answer: _____



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Questions 34-36: Divide the fractions by whole numbers.

34.

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

Answer: _____

35.

$$\frac{1}{3} \div 6$$

Answer: _____

36.

$$\frac{1}{7} \div 2$$

Answer: _____



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Questions 37-39: Write the answer to each division problem.

37.

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

Answer: _____

38.

$$6 \div \frac{1}{3}$$

Answer: _____

39.

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

Answer: _____



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