7th Grade Tier 3 Screener - Winter

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

1.

$$
\begin{array}{r}
4\,8\,7 \\
\times\quad 3 \\
\end{array}
$$

1461

Answer: _____

2.

$$
\begin{array}{r}
6\,2\,8\,7 \\
\times\quad 4 \\
\end{array}
$$

25148

Answer: _____

3.

$$
\begin{array}{r}
6\,3 \\
\times\,1\,5 \\
\end{array}
$$

945

Answer: _____

STOP

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

Number Correct = _____

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

4.

$$
\begin{array}{r}
2\,4\,1\,6 \\
\times\ \ \ \ \ 3 \\
\hline
\end{array}
$$

7428

Answer: _____

5.

$$
\begin{array}{r}
4\,8 \\
\times\ 1\,4 \\
\hline
\end{array}
$$

672

Answer: _____

6.

$$
\begin{array}{r}
6\,3\,8 \\
\times\ \ 1\,4 \\
\hline
\end{array}
$$

8932

Answer: _____

STOP

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

Number Correct = _____

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

7.

$$5\overline{)32}$$

6 R2

Answer: _____

8.

$$8\overline{)504}$$

63

Answer: _____

9.

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

1683

Answer: _____

(STOP)

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

Number Correct = _____

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

10.

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

593

Answer: _____

11.

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

1409

Answer: _____

12.

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

162

Answer: _____

STOP

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

Number Correct = _____

Questions 13-15: Evaluate the expression.

13.

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

Answer: **32**

14.

$$10 - (5 - 2)$$

Answer: **7**

15.

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

Answer: **48**

STOP

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

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: **>**

STOP

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

Number Correct = _____

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

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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?

○ $1\frac{3}{5}$ ○ $2\frac{3}{5}$ ○ $3\frac{2}{5}$ ○ $\frac{5}{13}$

STOP

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

Number Correct = _____

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

22.

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

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

_____

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

Answer: _____

23.

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

$$- 3 \frac{1}{7}$$

_____

$$3 \frac{4}{7}$$

Answer: _____

24.

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

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

_____

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

Answer: _____

[STOP]

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

Number Correct = _____

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

---

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

○ $\frac{1}{2}$ x $\frac{1}{3}$

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

○   3 + $\frac{1}{2}$

○ $\boxed{\frac{1}{2} \text{ x } \frac{1}{2} \text{ x } \frac{1}{2}}$

---

26. Multiply:

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

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

---

27. Multiply:

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

○ $\frac{20}{3}$ ○ $\frac{15}{20}$ ○ $\boxed{\frac{15}{4}}$ ○ $\frac{3}{20}$

STOP

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

Number Correct = _____

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

28.

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

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

_____

Answer: _____ $7 \dfrac{1}{12}$

29.

$$6$$

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

_____

Answer: _____ $3 \dfrac{1}{4}$

30.

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

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

_____

Answer: _____ $3 \dfrac{5}{6}$

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

Number Correct = _____

Questions 31-33: Multiply the fractions.

31.

$$\frac{1}{4} \quad X \quad \frac{3}{5}$$

Answer: $\dfrac{3}{20}$

32.

$$\frac{5}{6} \quad X \quad \frac{1}{7}$$

Answer: $\dfrac{5}{42}$

33.

$$\frac{2}{3} \quad X \quad \frac{5}{8}$$

Answer: $\dfrac{5}{12}$

STOP

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

Number Correct = _____

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

34.

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

Answer: $\dfrac{1}{16}$

35.

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

Answer: $\dfrac{1}{18}$

36.

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

Answer: $\dfrac{5}{14}$

STOP

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

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

37.

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

Answer: **20**

38.

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

Answer: **18**

39.

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

Answer: **20**

STOP

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

Number Correct = _____