

**(A)** Translating between word phrases and math expressions

Part 1 Write each phrase as an expression.
Write the expressions properly.

1. 9 multiplied by C

$$\textcircled{9C} \quad \checkmark$$

3. the product of m and 5

$$\textcircled{5m} \quad \checkmark$$

5. the sum of 21 and K

$$\textcircled{21+K} \quad \checkmark$$

7. the quotient of V and 4

$$\textcircled{\frac{V}{4}} \quad \checkmark$$

2. W decreased by 13

$$\textcircled{W-13} \quad \checkmark$$

4. X more than 20

$$\textcircled{20+X} \quad \checkmark$$

6. 17 less than n

$$\textcircled{n-17} \quad \checkmark$$

8. Y subtracted from 35

$$\textcircled{35-Y} \quad \checkmark$$

Part 2 Write two different phrases for each expression.

9. $\frac{C}{6}$ The quotient of C and 6 \checkmark
C divided by 6 \checkmark

10. $W+17$ w plus 17 \checkmark
The sum of w and 17 \checkmark

11. $8-m$ 8 minus m \checkmark
the difference of 8 and m \checkmark

12. $5X$ 5 times X \checkmark
the product of 5 and X \checkmark

13. $n-12$ n minus 12 \checkmark
The difference of n and 12 \checkmark

14. $\frac{30}{b}$ 30 divided by b \checkmark
The quotient of 30 and b \checkmark

(B) For each table, solve the rule and write it as an expression properly. Apply that rule to fill in the missing values.

1.

n	$\frac{n-2}{9} C$
47	5
83	9
110	12
74	8 C
20	9 X
C 56	6
C 137	15

$$12 \overline{)108}$$

$$\begin{array}{r} 9 \\ 12 \overline{)108} \\ \underline{108} \\ 0 \end{array}$$

$$\frac{20-2}{9} = \frac{18}{9} = 2$$

$$\begin{array}{r} 4 \ 56 \\ \times 9 \\ \hline 135 \\ + 2 \\ \hline 137 \end{array}$$

2.

n	$\frac{n}{8} + 1 C$
88	12
16	3
40	6
72	10 C
128	17 C
C 96	13
C 56	8

$$13 \times 8 = 104$$

$$8 \overline{)128}$$

$$\begin{array}{r} 16 \\ 8 \overline{)128} \\ \underline{80} \\ 48 \\ \underline{48} \\ 0 \end{array}$$

$$\begin{array}{r} 3 \\ \times 14 \\ \hline 112 \end{array}$$

$$8 \overline{)112}$$

$$\begin{array}{r} 14 \\ 8 \overline{)112} \\ \underline{80} \\ 32 \\ \underline{32} \\ 0 \end{array}$$

3.

n	$4n+5 C$
3	17
10	45
100	405
9	41 C
16	69 C
C 25	105
C 12	53

$$2 \times 16 = 32$$

$$\begin{array}{r} 2 \\ \times 16 \\ \hline 64 \end{array}$$

$$4 \overline{)198}$$

$$\begin{array}{r} 49 \\ 4 \overline{)198} \\ \underline{156} \\ 42 \\ \underline{42} \\ 0 \end{array}$$

4.

n	$12n-1 C$
6	71
8	95
12	143
9	107 C
15	179 C
C 25	299
C 7	83

$$12 \times 6 = 72$$

$$12 \times 8 = 96$$

$$46 \times 7 = 322$$

$$12 \times 9 = 108$$

$$12 \overline{)300}$$

$$\begin{array}{r} 25 \\ 12 \overline{)300} \\ \underline{240} \\ 60 \\ \underline{60} \\ 0 \end{array}$$

$$\begin{array}{r} 15 \\ \times 12 \\ \hline 30 \\ 150 \\ \hline 180 \end{array}$$

$$12 \overline{)84}$$

$$\begin{array}{r} 7 \\ 12 \overline{)84} \\ \underline{84} \\ 0 \end{array}$$

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