HOW'S BUSINESS?

SOLDIER: "Mine is _____."

30 37 $^{-}2$ 8 $^{-}37$ $^{-}22$ $^{-}87$ 59 8 $^{-}78$ $^{-}87$ $^{-}47$ $^{-}2$

BOXER: "Mine is _____."

$^{-}78$ 26 0 37 8 8 0 $^{-}22$ 49 $^{-}93$ 2 0 $^{-}83$ 59

STEAK SAUCE MAKER: "Mine is _____."

$^{-}19$ 0 2 $^{-}2$ 59 $^{-}257$ $^{-}22$ $^{-}2$ $^{-}186$ 59 $^{-}78$ 2

MATH TEACHER: "Mine is _____."

$^{-}846$ 161 $^{-}78$ $^{-}2$ $^{-}2$ $^{-}186$

EACH PERSON ABOVE IS ANSWERING THE QUESTION, "HOW'S BUSINESS?" TO DECODE THEIR ANSWERS:

Do any exercise below and find your answer in the code above. Each time the answer appears in the code, write the letter of that exercise above it. Keep working until you have decoded all four responses.

(I) $10 + {}^{-}32 =$

(B) $^{-}15 + 41 =$

(V) $^{-}39 + {}^{-}44 =$

(E) $^{-}27 + 86 =$

(M) $61 + {}^{-}12 =$

(K) $^{-}75 + 28 =$

(A) $^{-}37 + {}^{-}41 =$

(D) $^{-}165 + {}^{-}92 =$

(W) $54 + {}^{-}73 =$

(J) $83 + {}^{-}53 =$

(U) $^{-}48 + 85 =$

(F) $^{-}85 + 48 =$

(P) $^{-}16 + {}^{-}77 =$

(L) $63 + 98 =$

(T) $^{-}105 + 113 =$

(O) $^{-}50 + 50 =$

(Y) $737 + {}^{-}923 =$

(N) $^{-}285 + 198 =$

(C) $^{-}457 + {}^{-}389 =$

(R) $95 + {}^{-}93 =$

(S) $^{-}95 + 93 =$

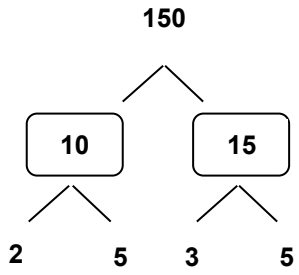
NAME _____ DATE _____ PERIOD _____

Lesson 2 Extra Practice

Prime Factorization

Example
Generate an equivalent expression for 150 using prime factorization.

Choose a pair of factors. Continue to factor until only prime numbers remain.



The prime factorization of 150 is $2 \times 3 \times 5 \times 5$, or $2 \times 3 \times 5^2$. So, $150 = 2 \times 3 \times 5^2$.

State whether each number is *prime*, *composite,* or *neither*.

1. 23

2. 45

3. 112

4. 64

5. 48

6. 121

5. 207

6. 199