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Topic: <u>The Standard Form</u>

Q1: Express the following in standard form:

 a) 5431
 b) 135.8
 c) 3769000
 d) 0.007653
 e) 2964.75
 f) 12.35

Q2: Express the following in ordinary notation:

 a) 5.62×10^6
 b) 8.359×10^7
 c) 3.612×10^{-2}
 d) 9.43×10^{-4}
 e) 12.4×10^3
 f) 2.75×10^8

Q3: Evaluate each of the following and give your answer in the standard form:

 a) $9(3.2 \times 10^{-3})$
 b) $6(32.5 \times 10^{10})$
 c) $0.4(15.6 \times 10^{-9})$
 d) $(8.64 \times 10^{10}) \div (3.6 \times 10^6)$
 e) $(6.8 \times 10^{10}) \times (2.5 \times 10^7)$
 f) $3.2 \times 10^4 \times 4 \times 10^9$
 g) $3.5 \times 10^4 + 4.5 \times 10^5$
 h) $7.6 \times 10^{10} + 6.7 \times 10^9$
 i) $9.3 \times 10^{10} - 9.8 \times 10^8$
 j) $4.6 \times 10^7 - 8.5 \times 10^6$

Q4: Given that $x = 5 \times 10^5$, find the value of each of the following, giving your

answer in standard form:

 a) $5x$
 b) x^2