

Exercise 2015-8EC-00004(1)

NO CALCULATORS MAY BE USED!

(1) Simplify by using exponential laws:

(a) $k^3 \times k^{-1} \times k^0 \times k$

(b) $(2x^3y)^2$

(c) $\frac{p^2q^3}{p^4q^3}$

(d) $\sqrt{81x^8}$

(e) $m^4 \times m^2 \times n \div n^2 \div m^3 \div n^3$

(2) Find the product of 5^{12} and 25^3 .

(3) Write the following in scientific notation:

(a) 800

(b) 17 897

(c) 4 million

(4) Write the following as a number:

(a) $7,3 \times 10^1$

(b) $1,0 \times 10^{10}$

(c) $5,00002 \times 10^3$