

ARITHMETIC (Q 1, PAPER 1)

LESSON NO. 9: SCIENTIFIC NOTATION

2001

1 (b) (ii) Calculate the value of

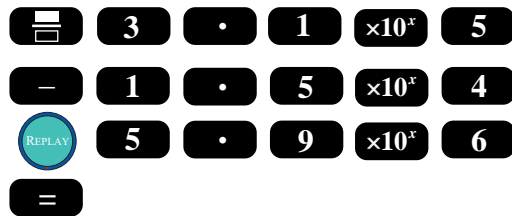
$$\frac{3.1 \times 10^5 - 1.5 \times 10^4}{5.9 \times 10^6}$$

and write your answer as a decimal number.

SOLUTION

1 (b) (ii) $\frac{3.1 \times 10^5 - 1.5 \times 10^4}{5.9 \times 10^6} = 0.05$ [Use calculator]

CALCULATOR: Calculate $\frac{3.1 \times 10^5 - 1.5 \times 10^4}{5.9 \times 10^6}$.



Math
$$\frac{3.1 \times 10^5 - 1.5 \times 10^4}{5.9 \times 10^6}$$

0.05

1996

1 (c) (i) Calculate the value of

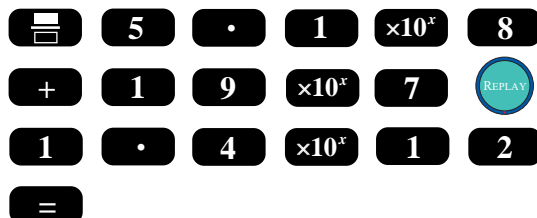
$$\frac{5.1 \times 10^8 + 19 \times 10^7}{1.4 \times 10^{12}}$$

and write your answer as a decimal number.

SOLUTION

1 (c) (i) $\frac{5.1 \times 10^8 + 19 \times 10^7}{1.4 \times 10^{12}} = 5 \times 10^{-4} = 0.0005$ [Use calculator]

CALCULATOR: Calculate $\frac{5.1 \times 10^8 + 19 \times 10^7}{1.4 \times 10^{12}}$.



Math
$$\frac{5.1 \times 10^8 + 19 \times 10^7}{1.4 \times 10^{12}}$$

 5×10^{-4}

The answer given on the calculator is given as 5×10^{-4} . To change this number into a decimal number, move the decimal point 4 places to the left.