

- (iii) Press Shift and = and the answer 0.0289 appears.
 (iv) Press the ENG function and the answer changes to 28.9×10^{-3} , which is **engineering form**.

Hence, $0.17^2 = 28.9 \times 10^{-3}$ in **engineering form**. The ENG function is extremely important in engineering calculations.

Problem 5. Change 348620 into engineering form

- (i) Type in 348620
 (ii) Press = then ENG.

Hence, $348620 = 348.62 \times 10^3$ in **engineering form**.

Problem 6. Change 0.0000538 into engineering form

- (i) Type in 0.0000538
 (ii) Press = then ENG.

Hence, $0.0000538 = 53.8 \times 10^{-6}$ in **engineering form**.

Problem 7. Evaluate 1.4^3

- (i) Type in 1.4
 (ii) Press x^3 and 1.4^3 appears on the screen.
 (iii) Press = and the answer $\frac{343}{125}$ appears.
 (iv) Press the $S \leftrightarrow D$ function and the fraction changes to a decimal: 2.744

Thus, $1.4^3 = 2.744$.

Now try the following **Practice Exercise**

Practice Exercise 13 Square and cube functions (answers on page 341)

- Evaluate 3.5^2
- Evaluate 0.19^2
- Evaluate 6.85^2 correct to 3 decimal places.
- Evaluate $(0.036)^2$ in engineering form.
- Evaluate 1.563^2 correct to 5 significant figures.
- Evaluate 1.3^3

- Evaluate 3.14^3 correct to 4 significant figures.
- Evaluate $(0.38)^3$ correct to 4 decimal places.
- Evaluate $(6.03)^3$ correct to 2 decimal places.
- Evaluate $(0.018)^3$ in engineering form.

4.3.2 Reciprocal and power functions

The reciprocal of 2 is $\frac{1}{2}$, the reciprocal of 9 is $\frac{1}{9}$ and the reciprocal of x is $\frac{1}{x}$, which from indices may be written as x^{-1} . Locate the reciprocal, i.e. x^{-1} on the calculator. Also, locate the power function, i.e. x^{\square} , on your calculator and then check the following worked examples.

Problem 8. Evaluate $\frac{1}{3.2}$

- (i) Type in 3.2
 (ii) Press x^{-1} and 3.2^{-1} appears on the screen.
 (iii) Press = and the answer $\frac{5}{16}$ appears.
 (iv) Press the $S \leftrightarrow D$ function and the fraction changes to a decimal: 0.3125

Thus, $\frac{1}{3.2} = 0.3125$

Problem 9. Evaluate 1.5^5 correct to 4 significant figures

- (i) Type in 1.5
 (ii) Press x^{\square} and 1.5^{\square} appears on the screen.
 (iii) Press 5 and 1.5^5 appears on the screen.
 (iv) Press Shift and = and the answer 7.59375 appears.

Thus, $1.5^5 = 7.594$ correct to 4 significant figures.

Problem 10. Evaluate $2.4^6 - 1.9^4$ correct to 3 decimal places

- (i) Type in 2.4
 (ii) Press x^{\square} and 2.4^{\square} appears on the screen.

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