

Objective: TBAT multiply with numbers in standard form



Met

Partially
Met

Not Met

Work on the
following sections:

Column 1

Column 2

Extension

Column 1

Write the following in standard form:

- a) 6 000
- b) 800
- c) 90
- d) 15 000
- e) 27 000 000
- f) 78 400
- g) 65 789

Column 2

Work out the following and give your
answer in standard form:

- a) 800×20
- b) 6000×400
- c) 700×15000
- d) 300^2
- e) $4\,000\,000^2$

Write the following as an ordinary
number:

- a) 4×10^7
- b) 9×10^3
- c) 3×10^5
- d) 4.1×10^4
- e) 6.7×10^8
- f) 2.87×10^9
- g) 8.7865×10^6

Work out the following and give your
answer in standard form:

- a) $(4 \times 10^3) \times (3 \times 10^2)$
- b) $(5 \times 10^2) \times (7 \times 10^5)$
- c) $(9 \times 10^7) \times (7 \times 10^3)$
- d) $(1.2 \times 10^6) \times (4 \times 10^8)$
- e) $(3.4 \times 10^4) \times (5 \times 10^9)$
- f) $(5.12 \times 10^5) \times (1.8 \times 10^3)$
- g) $(4.6 \times 10^3)^2$

Extension:

Erica was completing her homework.

She was completing the question: $(5.6 \times 10^6)^3$

Her working out is as follows:

$$\begin{aligned} & (5.6 \times 10^6) \times (5.6 \times 10^6) \times (5.6 \times 10^6) \\ & = 175.616 \times 10^{216} \\ & = 1.75616 \times 10^{214} \end{aligned}$$

- a) Identify any mistakes that Erica has made
- b) Correctly answer the question