

Convert large numbers to standard form

Maths

Mr Chan



Convert large numbers to standard form

1. Write these numbers as a power of ten.

- a) 100
- b) 10,000
- c) 100,000
- d) 1,000,000

2. Evaluate

- a) 3.74×100
- b) $36.1 \times 1,000$
- c) $0.982 \times 10,000$
- d) 0.021×100

3. Work out the missing index number for each calculation.

- a) $6,000 = 6 \times 10^{\square}$
- b) $1,000,000 = 1 \times 10^{\square}$
- c) $3,200 = 3.2 \times 10^{\square}$
- d) $723,000 = 7.23 \times 10^{\square}$
- e) $40,800 = 4.08 \times 10^{\square}$
- f) $2,990,000 = 2.99 \times 10^{\square}$



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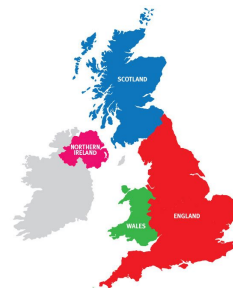
4. Write these numbers in standard form.

- a) 2,000
- b) 2,100
- c) 71,000
- d) 80,400
- e) 320,000

5. The distance from Earth to the Moon is 384,000,000 m. Write this number in standard form.

6. The population of the United Kingdom is over 67,000,000 people.

Write the population of The United Kingdom in standard form.



7. Mount Everest is 8,800 metres high.

- a) Convert this number into centimetres.
- b) Write your answer to part a in standard form.



Answers



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1. Write these numbers as a power of ten.

a) $100 = 10^2$

b) $10,000 = 10^4$

c) $100,000 = 10^5$

d) $1,000,000 = 10^6$

2. Evaluate

a) $3.74 \times 100 = 374$

b) $36.1 \times 1,000 = 36,100$

c) $0.982 \times 10,000 = 9,820$

d) $0.021 \times 100 = 2.1$

3. Work out the missing index number for each calculation.

a) $6,000 = 6 \times 10^3$

b) $1,000,000 = 1 \times 10^6$

c) $3,200 = 3.2 \times 10^3$

d) $723,000 = 7.23 \times 10^5$

e) $40,800 = 4.08 \times 10^4$

f) $2,909,000 = 2.909 \times 10^6$



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4. Write these numbers in standard form.

a) $2,000 = 2 \times 10^3$

b) $2,100 = 2.1 \times 10^3$

c) $71,000 = 7.1 \times 10^4$

d) $80,400 = 8.04 \times 10^4$

e) $320,000 = 3.2 \times 10^5$

5. The distance from Earth to the Moon is 384,000,000 m. Write this number in standard form. 3.84×10^8

6. The population of the United Kingdom is over 67,000,000 people.



Write the population of The United Kingdom in standard form.
 6.7×10^7 people

7. Mount Everest is 8,800 metres high.

a) Convert this number into centimetres. $880,000$ cm

b) Write your answer to part a in standard form. 8.8×10^5 cm

