

Team Challenge 1

Q1. (a) Write 6.4×10^4 as an ordinary number.

.....

(1)

(b) Write 0.0039 in standard form.

.....

(1)

(c) Write 0.25×10^7 in standard form.

.....

(1)
(Total 3 marks)

Q2. (a) Write 64 000 in standard form.

.....

(1)

(b) Write 156×10^{-7} in standard form.

.....

(1)
(Total 2 marks)

Team Challenge 2

Q1. (a) Write the number 39 000 in standard form.

.....

(1)

(b) Write 7.21×10^{-3} as an ordinary number.

.....

(1)

(Total 2 marks)

Q2. Work out $(3 \times 10^6) \times (5 \times 10^{-4})$.

Give your answer in standard form.

.....

(Total 2 marks)

Q3. The number of atoms in one kilogram of helium is 1.51×10^{26}

Calculate the number of atoms in 20 kilograms of helium.

Give your answer in standard form.

.....

(Total 2 marks)

Team Challenge 3

Q1. Work out $(3 \times 10^6) \times (5 \times 10^{-4})$.

Give your answer in standard form.

.....

(Total 2 marks)

Q2. Work out $(2.5 \times 10^9) \div (5 \times 10^3)$.
Give your answer in standard form.

.....

(Total 2 marks)

Q3. The population of Algeria is 34 million.

(a) Write 34 million in standard form.

.....

(1)

The total land area of Algeria is $2.4 \times 10^{12} \text{ m}^2$.
5% of the total land area is used to grow crops.

(b) Work out the area of land in Algeria which is used to grow crops.
Write your answer in standard form, in km^2 .

..... km^2

(2)

(Total 3 marks)

Team Challenge 4

Q1. Work out $(3 \times 10^6) \times (5 \times 10^{-4}) \div (2 \times 10^4)$

Give your answer in standard form.

.....

(Total 2 marks)

Q2. Work out $(3 \times 10^3) \times (2.5 \times 10^9) \div (5 \times 10^3)$.
Give your answer in standard form.

.....

(Total 2 marks)

Q3. Work out $(3.2 \times 10^{-2}) \times (5 \times 10^{-4}) \div (4 \times 10^4)$

Give your answer in standard form.

.....

(Total 2 marks)

Q4. Work out $(4 \times 10^{-6}) \div (5 \times 10^{-3}) \times (2.5 \times 10^7)$
Give your answer in standard form.

.....

(Total 2 marks)

Team Challenge 1

Q1. (a) Write 6.4×10^4 as an ordinary number.

64000

.....

(1)

(b) Write 0.0039 in standard form.

3.9×10^{-3}

.....

(1)

(c) Write 0.25×10^7 in standard form.

2.5×10^6

.....

(1)

(Total 3 marks)

Q2. (a) Write 64 000 in standard form.

6.4×10^4

.....

(1)

(b) Write 156×10^{-7} in standard form.

1.56×10^{-5}

.....

(1)

(Total 2 marks)

Team Challenge 2

Q1. (a) Write the number 39 000 in standard form.

$$3.9 \times 10^4$$

.....

(1)

(b) Write 7.21×10^{-3} as an ordinary number.

$$0.00721$$

.....

(1)
(Total 2 marks)

Q2. Work out $(3 \times 10^6) \times (5 \times 10^{-4})$.

Give your answer in standard form.

$$1.5 \times 10^3$$

.....

(Total 2 marks)

Q3. The number of atoms in one kilogram of helium is 1.51×10^{26}

Calculate the number of atoms in 20 kilograms of helium.

Give your answer in standard form.

$$3.02 \times 10^{27}$$

.....

(Total 2 marks)

Team Challenge 3

Q1. Work out $(3 \times 10^6) \times (5 \times 10^{-4})$.

Give your answer in standard form.

1.5×10^3

.....

(Total 2 marks)

Q2. Work out $(2.5 \times 10^9) \div (5 \times 10^3)$.

Give your answer in standard form.

5×10^5

.....

(Total 2 marks)

Q3. The population of Algeria is 34 million.

(a) Write 34 million in standard form.

3.4×10^7

.....

(1)

The total land area of Algeria is $2.4 \times 10^{12} \text{ m}^2$.
5% of the total land area is used to grow crops.

(b) Work out the area of land in Algeria which is used to grow crops.
Write your answer in standard form, in km^2 .

1.2×10^{11}

..... km^2

(2)

(Total 3 marks)

Team Challenge 4

Q1. Work out $(3 \times 10^6) \times (5 \times 10^{-4}) \div (2 \times 10^4)$

Give your answer in standard form.

$$7.5 \times 10^{-2}$$

.....

(Total 2 marks)

Q2. Work out $(3 \times 10^3) \times (2.5 \times 10^9) \div (5 \times 10^3)$.
Give your answer in standard form.

$$1.5 \times 10^9$$

.....

(Total 2 marks)

Q3. Work out $(3.2 \times 10^{-2}) \times (5 \times 10^{-4}) \div (4 \times 10^4)$

Give your answer in standard form.

$$4 \times 10^{-10}$$

.....

(Total 2 marks)

Q4. Work out $(4 \times 10^{-6}) \div (5 \times 10^{-3}) \times (2.5 \times 10^7)$
Give your answer in standard form.

$$2 \times 10^4$$

.....

(Total 2 marks)

