

Questions on Standard Form

Q1.

A metal box has a weight of 8×10^3 grams.

Find, in standard form, the weight of 10 of these metal boxes.

..... grams

(Total for question = 1 mark)

Q2.

(a) Write 7.8×10^{-4} as an ordinary number.

.....
(1)

(b) Write 95 600 000 as a number in standard form.

.....
(1)

(Total for Question is 2 marks)

Q3.

(a) Write 152 million in standard form.

.....
(2)

(b) Write 2.4×10^{-3} as an ordinary number.

.....
(1)

(Total for Question is 3 marks)

Q4.

(a) Write 5 400 000 as a number in standard form.

.....
(1)

(b) Write 3.2×10^{-4} as an ordinary number.

.....
(1)

The mass of the Sun is 2×10^{30} kg.
The mass of the largest known star is 315 times the mass of the Sun.

- (c) Work out the mass of this star.
Give your answer in kg in standard form.

..... kg

(2)

(Total for question = 4 marks)

Q5.

- (a) Write 4.5×10^{-3} as an ordinary number.

.....
(1)

- (b) Work out the value of $(2.5 \times 10^{-2}) \div (3.8 \times 10^3)$
Give your answer in standard form correct to 3 significant figures.

.....
(2)

(Total for Question is 3 marks)

Q6.

- (a) Write 0.0037 in standard form.

.....
(1)

- (b) Write 4.9×10^4 as an ordinary number.

.....
(1)

- (c) Work out the value of

$$\frac{500}{250 \times 10^3}$$

Give your answer in standard form.

.....
(2)

(Total for Question is 4 marks)