



# Standard Form

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1) June 2010 V1

5 Calculate the value of  $5(6 \times 10^3 + 400)$ , giving your answer in standard form.

Answer ..... [2]



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2) June 2010 V2

- 6 Change 64 square metres into square millimetres.  
Give your answer in standard form.

Answer ..... mm<sup>2</sup> [2]

3) June 2010 V3

- 9 1 second = 10<sup>6</sup> microseconds.

Change  $3 \times 10^{13}$  microseconds into minutes. Give your answer in standard form.

Answer ..... min [2]

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4) November 2010 V1

6 Work out  $\frac{240^2}{5 \times 10^6}$ .

Give your answer in standard form.

Answer ..... [2]

5) November 2010 V2

6 Write 0.00658

(a) in standard form,

Answer(a) ..... [1]

(b) correct to 2 significant figures.

Answer(b) ..... [1]

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6) June 2011 V1

5 A hummingbird beats its wings 24 times per second.

(a) Calculate the number of times the hummingbird beats its wings in one hour.

Answer(a) ..... [1]

(b) Write your answer to **part (a)** in standard form.

Answer(b) ..... [1]

7) June 2011 V2

7 Solve the equation  $4x + 6 \times 10^3 = 8 \times 10^4$ .

Give your answer in standard form.

Answer x = ..... [3]

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8) June 2011 V3

- 6 (a) Write 16 460000 in standard form.

Answer(a) ..... [1]

- (b) Calculate  $7.85 \div (2.366 \times 10^2)$ , giving your answer in standard form.

Answer(b) ..... [2]

9) November 2011 V1

- 2 Work out  $2(3 \times 10^8 - 4 \times 10^6)$ , giving your answer in standard form.

Answer ..... [2]

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5 The population of a city is 128 000, correct to the nearest thousand.

(a) Write 128 000 in standard form.

Answer(a) ..... [1]

(b) Write down the upper bound of the population.

Answer(b) ..... [1]

11) June 2013 V2

4 Calculate  $(4.3 \times 10^8) + (2.5 \times 10^7)$ .

Give your answer in standard form.

Answer ..... [2]

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12) June 2013 V3

9 Calculate, giving your answers in standard form,

(a)  $2 \times (5.5 \times 10^4)$ ,

Answer(a) ..... [2]

(b)  $(5.5 \times 10^4) - (5 \times 10^4)$ .

Answer(b) ..... [2]

13) November 2013 V3

12 Write the answer to the following calculations in standard form.

(a)  $600 \div 8000$

Answer(a) ..... [2]

(b)  $10^8 - 7 \times 10^6$

Answer(b) ..... [2]

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14) June 2014 V1

12  $p = 4 \times 10^5$      $q = 5 \times 10^4$

Find, giving your answer in standard form,

(a)  $pq$ ,

Answer(a) ..... [2]

(b)  $\frac{q}{p}$ .

Answer(b) ..... [2]

15) June 2014 V3

5 (a) Use your calculator to find the value of  $7.5^{-0.4} \div \sqrt{57}$ .  
Write down your full calculator display.

Answer(a) ..... [1]

(b) Write your answer to **part (a)** in standard form.

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Answer(b) ..... [1]

16) November 2014 V1

- 9 (a) Write  $2.8 \times 10^2$  as an ordinary number.

Answer(a) ..... [1]

- (b) Work out  $2.5 \times 10^8 \times 2 \times 10^{-2}$ .  
Give your answer in standard form.

Answer(b) ..... [2]

17) November 2014 V3

- 3 Work out  $4 \times 10^{-5} \times 6 \times 10^{12}$ .  
Give your answer in standard form.

Answer ..... [2]

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18) June 2015 V1

3 Write 270 000 in standard form.

Answer ..... [1]

19) June 2015 V2

1 Write 53 400 000 in standard form.

Answer ..... [1]

20) November 2015 V3

3 Write  $1.7 \times 10^{-4}$  as an ordinary number.

Answer ..... [1]

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4 Write in standard form.

(a) 2470 000

..... [1]

(b) 0.0079

..... [1]



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22) June 2016 V1

3 Write  $1.27 \times 10^{-3}$  as an ordinary number.

..... [1]

23) June 2016 V2

1 Write 0.000 0574 in standard form.

..... [1]

24) November 2016 V1

5 (a) Write  $5^{-3}$  as a fraction.

..... [1]

(b) Write 0.004 56 in standard form.

..... [1]

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25) June 2018 V2

8 Here are some numbers written in standard form.

$3.4 \times 10^{-1}$        $1.36 \times 10^6$        $7.9 \times 10^0$        $2.4 \times 10^5$        $5.21 \times 10^{-3}$        $4.3 \times 10^{-2}$

From these numbers, write down

(a) the largest number,

..... [1]

(b) the smallest number.

..... [1]

26) November 2020 V2

14 Work out  $(3 \times 10^{199}) + (2 \times 10^{201})$ .  
Give your answer in standard form.

..... [2]

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