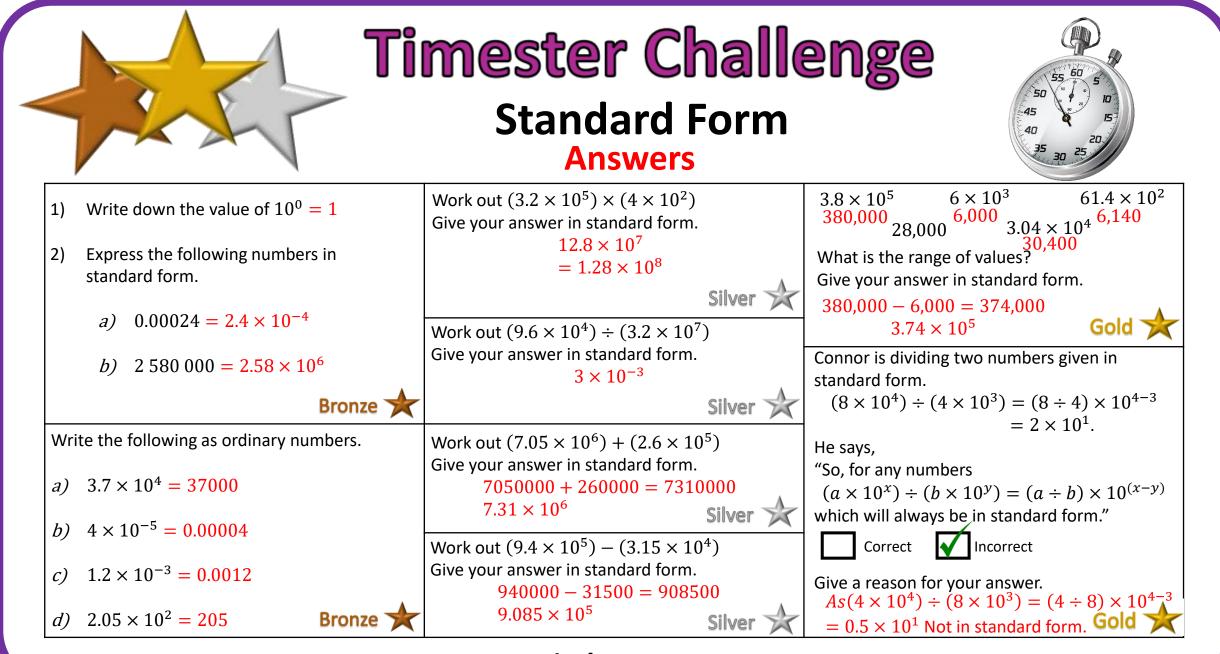


## **Timester Challenge** Standard Form

1) Write down the value of 1	100	Work out $(3.2 \times 10^5) \times (4 \times 10^2)$ Give your answer in standard form.		$\begin{array}{cccc} 3.8 \times 10^5 & 6 \times 10^3 & 61.4 \times 10^2 \\ 28000 & 3.04 \times 10^4 \end{array}$
<ol> <li>Express the following num standard form.</li> </ol>	nbers in		Silver 🖈	What is the range of values? Give your answer in standard form.
<i>a)</i> 0.00024		Work out $(9.6 \times 10^4) \div (3.2 \times 10^7)$		Gold ★
<i>b)</i> 2 580 000		Give your answer in standard form.		Connor is dividing two numbers given in standard form.
	Bronze ★		Silver	$(8 \times 10^4) \div (4 \times 10^3) = (8 \div 4) \times 10^{4-3}$ $= 2 \times 10^1.$
Write the following as ordinary numbers.		Work out $(7.05 \times 10^6) + (2.6 \times 10^5)$	<sup>5</sup> )	$= 2 \times 10^{-1}.$
<i>a)</i> $3.7 \times 10^4$		Give your answer in standard form.	А	"So, for any numbers $(a \times 10^{x}) \div (b \times 10^{y}) = (a \div b) \times 10^{(x-y)}$
<i>b)</i> $4 \times 10^{-5}$		Work out $(9.4 \times 10^5) - (3.15 \times 10^5)$	Silver 💢	which will always be in standard form."
c) $1.2 \times 10^{-3}$		Give your answer in standard form.		Give a reason for your answer.
<i>d</i> ) $2.05 \times 10^2$	Bronze ★		Silver ★	Gold ★

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