Fill In The Blanks…

**Matrix Multiplication**

|  |  |  |
| --- | --- | --- |
| **Question** | **Working** | **Answer** |
| $$\left(\begin{matrix}3&0\\1&4\end{matrix}\right)$$ | $$×$$ | $$\left(\begin{matrix}2&1\\5&0\end{matrix}\right)$$ | $$3×2+0×5$$ | $$3×1+0×0$$ |  |
| $$1×2+4×5$$ | $$1×1+4×0$$ |
|  |
| $$\left(\begin{matrix}4&2\\3&0\end{matrix}\right)$$ | $$×$$ | $$\left(\begin{matrix}7&0\\1&1\end{matrix}\right)$$ |  | $$4×0+2×1$$ |  |
| $$3×7+0×1$$ | $$3×0+0×1$$ |
|  |
| $$\left(\begin{matrix}2&-1\\1&3\end{matrix}\right)$$ | $$×$$ | $$\left(\begin{matrix}0&4\\2&1\end{matrix}\right)$$ |  |  |  |
| $$1×0+3×2$$ |  |
|  |
| $$\left(\begin{matrix}-3&1\\-2&0\end{matrix}\right)$$ | $$×$$ | $$\left(\begin{matrix}0&-1\\4&1\end{matrix}\right)$$ |  |  |  |
|  |  |
|  |
| $$\left(\begin{matrix}1.5&0\\-3&2\end{matrix}\right)$$ | $$×$$ | $$\left(\begin{matrix}4&0.5\\2&-1\end{matrix}\right)$$ |  |  |  |
|  |  |
|  |
| $$\left(\begin{matrix}\frac{3}{4}&-2\\0&3\end{matrix}\right)$$ | $$×$$ | $$\left(\begin{matrix}-1&\frac{2}{3}\\4&2\end{matrix}\right)$$ |  |  |  |
|  |  |
|  |
| $$\left(\begin{matrix}1&\sqrt{3}\\-2&0\end{matrix}\right)$$ | $$×$$ | $$\left(\begin{matrix}-2&0\\\sqrt{3}&4\end{matrix}\right)$$ |  |  |  |
|  |  |
|  |
|  | $$×$$ |  |  |  |  |
|  |  |
|  |
|  | $$×$$ | $$\left(\begin{matrix}2&-1\\1&3\end{matrix}\right)$$ |  |  | $$\left(\begin{matrix}3&16\\7&0\end{matrix}\right)$$ |
|  |  |