Question 1

(ii) Write $\frac{a^7}{a^3}$ in the form a^n, where $n \in \mathbb{N}$.

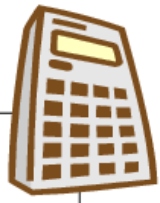
Hence or otherwise evaluate $\frac{11^7}{11^3}$.

$\frac{a^7}{a^3} =$

$\frac{11^7}{11^3} =$

Question 2

2(c) **(i)** Using a calculator, or otherwise, find the exact value of $(4^2)^3$.



$(4^2)^3 =$

Question 3

2(c) Using a calculator, or otherwise, find the exact value of:

(i) $49^{\frac{1}{2}}$

Question 4

(ii) Simplify $\frac{a^5 \times a^2}{a \times a^3}$. Give your answer in the form a^n, where $n \in \mathbf{N}$.

$\frac{a^5 \times a^2}{a \times a^3} =$

(iii) Using your answer to part **(ii)**, or otherwise, find the value of $\frac{6^5 \times 6^2}{6 \times 6^3}$.

$\frac{6^5 \times 6^2}{6 \times 6^3} =$

Question 5

(c) **(i)** Write $(a^3)^2$ in the form a^n, $n \in \mathbb{N}$.

(ii) Using your answer from **(i)** or otherwise evaluate $(5^3)^2$.

$(5^3)^2 =$