

5. Powers of 10 and Exponents

a)

$$10^1 = 10 = \mathbf{10} \text{ (1 zero)}$$

$$10^2 = 10 \times 10 = \mathbf{100} \text{ (2 zeros)}$$

$$10^3 = 10 \times 10 \times 10 = \mathbf{1000} \text{ (3 zeros)}$$

$$10^4 = 10 \times 10 \times 10 \times 10 = \mathbf{10000} \text{ (4 zeros)}$$

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b)

$$10^5 = 10 \times 10 \times 10 \times 10 \times 10 = \boxed{} \quad (\boxed{} \uparrow 0)$$

c)

$$10^6 = 10 \times 10 \times 10 \times 10 \times 10 \times 10 = \boxed{} \quad (\boxed{} \uparrow 0)$$

d)

$$600 = 6 \times 100 = 6 \times \boxed{}$$

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e) $7000 = 7 \times \square = 7 \times \square$

f) $50000 = 5 \times \square = 5 \times \square$