

**Exponential Equation Live Worksheet.**  
(Write-down the value of  $x$  in the box.)    FM:15

$$(a) 2^x = 32 \quad x =$$

$$(b) 3^x = 27 \quad x =$$

$$(c) 3^{-x} = 243 \quad x =$$

$$(d) 3^x = 81 \quad x =$$

$$(e) 2^x = 8 \quad x =$$

$$(f) 4^x = 16 \quad x =$$

$$(g) 4^{2x} = 4^x \quad x =$$

$$(a) x^{-2} = \frac{1}{25} \quad x =$$

$$(b) \frac{1}{6^{-x}} = 1 \quad x =$$

$$(c) \frac{1}{2^{-3x}} = 8 \quad x =$$

$$(d) \frac{1}{3^{-x}} = 27 \quad x =$$

$$(e) 4^x = \frac{1}{16} \quad x =$$

$$(f) \frac{1}{16} = \frac{1}{4^x} \quad x =$$

$$(g) \frac{1}{3^x} = \frac{1}{81} \quad x =$$

$$(h) \left(\frac{4}{5}\right)^x = \left(\frac{125}{64}\right) \quad x =$$

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