

6.EE Exponent Experimentation

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Alignments to Content Standards: 6.EE.B.5 6.EE.A.1

Task

In each equation below, x can be replaced with a number that makes the equation true. Find such a number.

a. $64 = x^2$

b. $64 = x^3$

c. $2^x = 32$

d. $x = \left(\frac{2}{5}\right)^3$

e. $\frac{16}{9} = x^2$

f. $2 \cdot 2^5 = 2^x$

g. $2x = 2^4$

h. $4^3 = 8^x$

i. $x^2 = 25$

j. $(x + 1)^2 = 25$

IM Commentary