

You will need 3 number cubes: 2 of one colour, the other a different colour Two of you investigate multiplying powers. Make a table like this:

Product of Powers	Product as Repeated Multiplication	Product as a Power
$5^4 imes 5^2$	$(5\times5\times5\times5)\times(5\times5)$	5 [?]

Two of you investigate dividing powers. Make a table like this:

Quotient of Powers	Quotient as Repeated Multiplication	Quotient as a Power
$5^4 \div 5^2 = \frac{5^4}{5^2}$	$\frac{5\times5\times5\times5}{5\times5}$	5 [?]

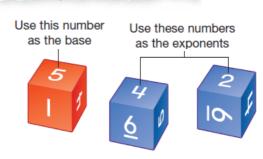
Roll the cubes.

Use the numbers to create powers, as shown.

Record each quotient of powers with the greater exponent in the dividend (the numerator).

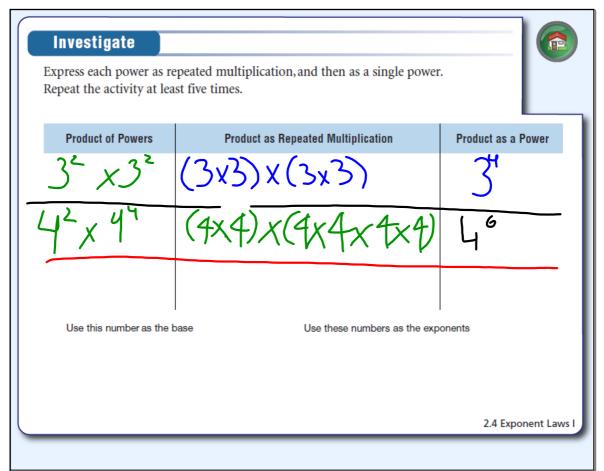
Express each power as repeated multiplication, and then as a single power.

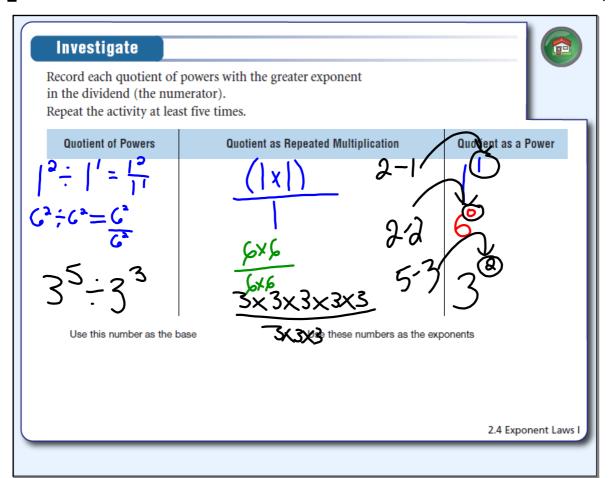
Repeat the activity at least five times.



2.4 Exponent Laws I

Investigate





Investigate p. 3

