GRADE 8 MATH · CLASSWORK · SPECIAL ED

Evaluate Perfect Squares and Perfect Cubes

SCORE / 25

01 Part A · Practice

A perfect square is a number times itself (n^2); a perfect cube is a number used as a factor three times (n^3).

EXAMPLE

Evaluate 6^2 and 6^3.

1. $6^2 = 6 \times 6 = 36$.
2. $6^3 = 6 \times 6 \times 6 = 216$.
3. 36 is a perfect square and 216 is a perfect cube.

WORDS TO KNOW

perfect square	a whole number times itself: $5^2 = 25$
perfect cube	a whole number used as a factor 3 times: $5^3 = 125$
exponent	tells how many times the base is used as a factor

1 ●○○ List all the perfect cubes from 65 to 654.

HINT Start with the smallest whole number whose cube is at least 65.

2 ●○○ Evaluate 9^2.

HINT Squaring means multiplying the number by itself.

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