Number

Activity 1 Assessment Investigating Perfect Squares and Square Roots

Investigating Perfect Squares and Square Roots			
Uses exponential notation to show factors of a number $25 = 5 \times 5$ $= 5^2$	Identifies a perfect square and a non-perfect square $64 = 8 \times 8$ $= 8^2$ 64 is a perfect square because it can be written as the product of two equal integers factors $63 = 3 \times 3 \times 7$ $= 3^2 \times 7$ 63 is not a perfect square because it cannot be written as the product of two equal integer factors. There is a single prime factor of 7 leftover	Determines the square root of a perfect square $144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$ $= 2 \times 2 \times 3 \times 2 \times 2 \times 3$ $= 12 \times 12$ $\sqrt{144} = 12$	Estimates the square root of a non- perfect square I know that $\sqrt{81} = 9$ and $\sqrt{100} = 10$, so I estimate that $\sqrt{90}$ is approximately 9.5 because 90 is about halfway between 81 and 100.
Observations/Documentation			