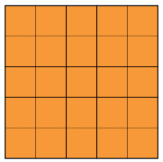
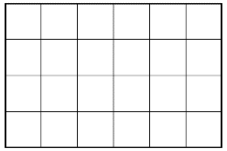
Number

Activity 4 Assessment

Investigating Perfect Squares and their Square Roots

Investigating Perfect Squares and their Square Roots			
Uses the area of a square to identify perfect squares "25 is a perfect square because it can be represented by a square with area 25 units^2.  24 is not a perfect square because it can't be represented by a square." 	Identifies a perfect square using the number of factors "The factors of 16 are: 1, 2, 4, 8, 16 16 is a perfect square as it has an odd number of factors. The factors of 17 are: 1, 17 17 is not a perfect square because it has an even number of factors."	Identifies the square root of a number from a list of its factors and records using square root symbol "The factors of 36 are: 1, 2, 3, 4, 6, 9, 12, 18, 36 $\sqrt{36}$ = 6, because 6 × 6 is the only pair of factors that are equal."	Solves problems involving squares or square roots A square field has perimeter 48 m. What is the area of the field? The side length is 12 m, so the area is 122 m^2 = 144 m^2.
Observations/Documentation			

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