

Making Squares

SOLUTIONS

1. The greatest common factor of 588 and 630 is 42, so the largest square with no waste is

$$42 \text{ cm} \times 42 \text{ cm}.$$

2. Ms. Harper can make 210 squares (14 rows with 15 squares in each row).

3. Sample solutions: If Ms. Harper makes 6 rows of rectangles along the 588 cm side with 18 rectangles in each row, then the 108 rectangles will be

$$98 \text{ cm} \times 35 \text{ cm}.$$

If Ms. Harper makes 12 rows of rectangles along the 588 cm side with 9 rectangles in each row, then the 108 rectangles will be

$$49 \text{ cm} \times 70 \text{ cm}.$$