Solving Proportions by Cross-Multiplication: Guided Worksheet Plan

Worked example / complete source key

Solve 6/8 = x/20 for x.

Answer: x = 15

Reason: Cross-multiply: 6 times 20 equals 8 times x, so 120 = 8x. Divide both sides by 8 to get x = 15. Check: 6/8 simplifies to 3/4, and 15/20 simplifies to 3/4, so the ratios are equal. Cross products are 6 times 20 = 120 and 8 times 15 = 120.