

Modeling division of a whole number by a fraction: Worksheet

14.1

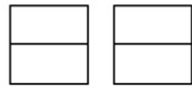
Name Date Score

1. Divide $2 \div 1/2$ using an area model.
2. Divide $2 \div 1/3$ using an area model.
3. Divide $2 \div 1/4$ using an area model.
4. Divide $3 \div 1/2$ using an area model.
5. Divide $3 \div 1/3$ using an area model.
6. Divide $3 \div 1/4$ using an area model.
7. Divide $4 \div 1/2$ using an area model.
8. Divide $4 \div 1/3$ using an area model.
9. Divide $4 \div 1/4$ using an area model.
10. Divide $5 \div 1/2$ using an area model.



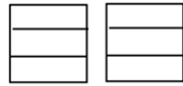
Solutions: Worksheet 14.1

1.



$$2 \div \frac{1}{2} = 2/1 \times 2/1 = 4 \quad 4 \text{ one-halves}$$

2.



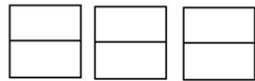
$$2 \div \frac{1}{3} = 2/1 \times 3/1 = 6 \quad 6 \text{ one-thirds}$$

3.



$$2 \div \frac{1}{4} = 2/1 \times 4/1 = 8 \quad 8 \text{ one-fourths}$$

4.



$$3 \div \frac{1}{2} = 3/1 \times 2/1 = 6 \quad 6 \text{ one-halves}$$

5.



$$3 \div \frac{1}{3} = 3/1 \times 3/1 = 9 \quad 9 \text{ one-thirds}$$

6.



$$3 \div \frac{1}{4} = 3/1 \times 4/1 = 12 \quad 12 \text{ one-fourths}$$

7.



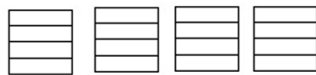
$$4 \div \frac{1}{2} = 4/1 \times 2/1 = 8 \quad 8 \text{ one-halves}$$

8.



$$4 \div \frac{1}{3} = 4/1 \times 3/1 = 12 \quad 12 \text{ one-thirds}$$

9.



$$4 \div \frac{1}{4} = 4/1 \times 4/1 = 16 \quad 16 \text{ one-fourths}$$

10.



$$5 \div \frac{1}{2} = 5/1 \times 2/1 = 10 \quad 10 \text{ one-halves}$$

