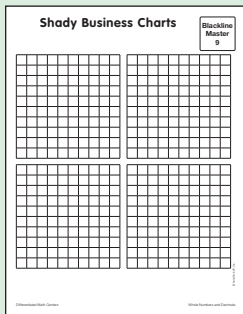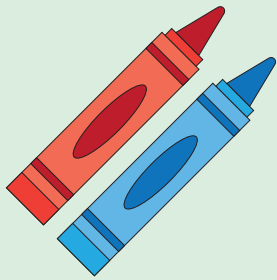# Shady Business

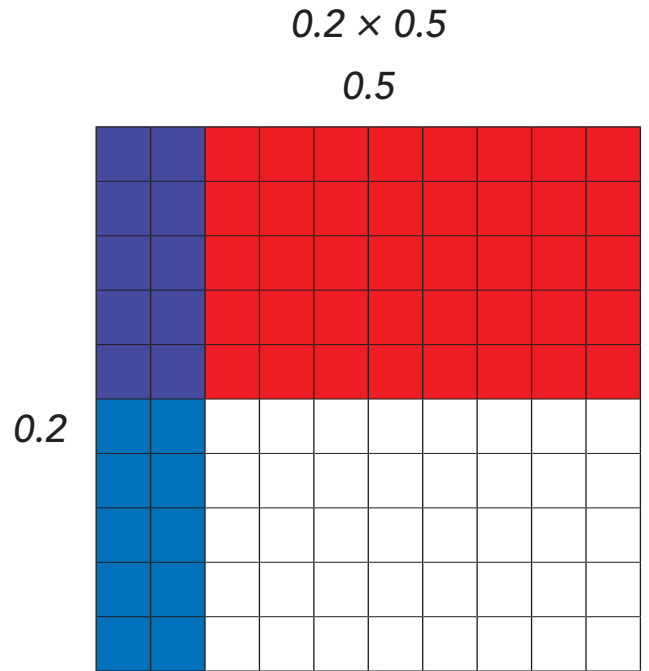## An activity for 1 person

Materials

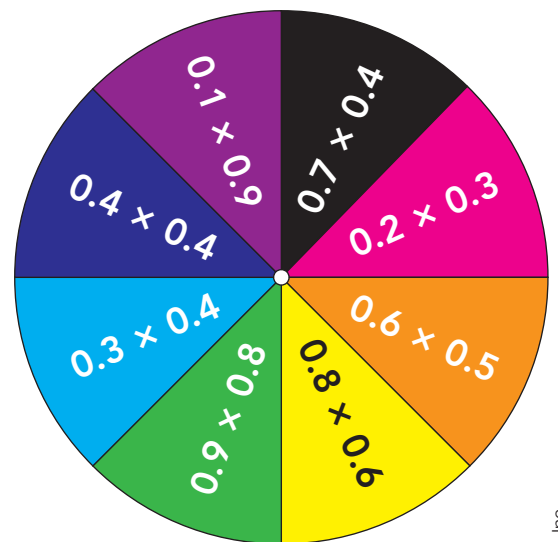Blackline Master #9

What to Do

1. You can solve decimal multiplication problems by making an area array model.

2. On the Shady Business Chart, shade 2 of the vertical bars in a hundred grid with a blue crayon to represent 0.2.

   Then shade 5 of the horizontal bars in the same hundred grid with a red crayon to represent 0.5.

3. Count how many squares are shaded both blue and red.

0.2×0.5

0.5

0.2

10 out of 100 squares = 0.1

$0.2 \times 0.5 = 0.1$

Show Your Work

4. Spin the spinner to find the decimal multiplication problem you will model.

5. Make an area array model on the Shady Business Chart.

6. Record the answer on the Shady Business Chart.

7. Repeat Steps 4–6 two more times.

Spinner sections: 0.1×0.9, 0.7×0.4, 0.2×0.3, 0.6×0.5, 0.8×0.6, 0.9×0.8, 0.3×0.4, 0.4×0.4

Explain how to find the product of 1.2×0.5 using an area array model.

Skill Practice

Multiply. Make area array models to help.

1. 0.7 × 0.8 =

2. 0.6 × 0.9 =

3. 0.5 × 0.5 =

4. 0.4 × 0.8 =

5. 0.2 × 0.6 =

6. 0.3 × 0.7 =

7. 0.9 × 0.9 =

8. 0.5 × 0.3 =

9. 0.5 × 0.8 =

10. 1.2 × 0.2 =

11. 1.5 × 0.6 =

12. 2.1 × 1.2 =