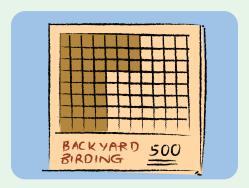
Model Multiplication

Let's represent multiplication of decimals with pictorial models.



Warm-Up





We are a math community.
What strengths can you bring to class today to help our math community grow?

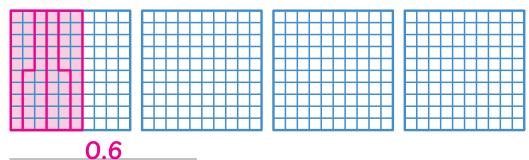
Activity

1

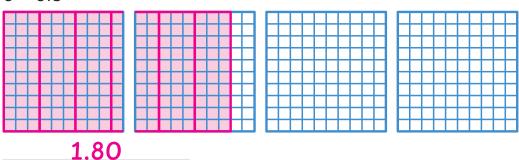
On the Model

Represent the expression by shading the hundredths model and circling each group of decimal factors. Then determine the product. Each model represents 1 whole. Sample work shown.

1 4 × 0.15



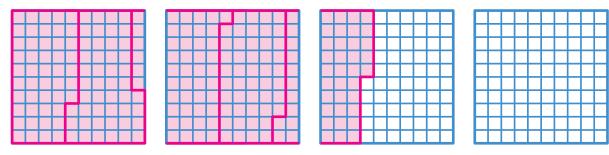
2 6 × 0.3



1

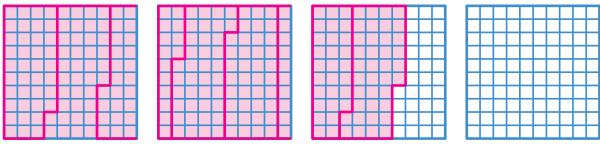
On the Model (continued)

3 5 × 0.47



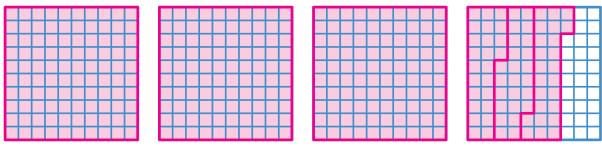
2.35

4 Miguel bought 7 price tags for his scarves. Each price tag cost \$0.38. How much money did he spend on the price tags?



\$2.66

Jonathan bought 3 puzzle boxes for his puzzles. Each box cost \$1.24. What is the total cost of the puzzle boxes?

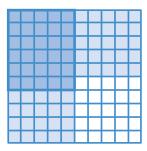


\$3.72

2

Finding Factors, Finding Products

Fiona used the hundredths model to show 0.5×0.60 . She thought of the expression as 0.5 of 0.60. Use Fiona's work to determine the product.



6 0.5 × 0.60

0.30

7 Discuss

How did you determine the product? Where do you see each factor on the hundredths model?

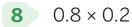
Oral activity: No writing expected. Sample response shown.

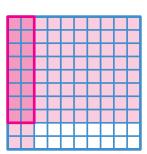
I determined the product by looking at the darkest part of the model, where the factors overlap. Fiona also outlined the darker part. I see 0.6 going up on the left and 0.50 going across the top. 2

Finding Factors, Finding Products (continued)

Shade each factor to determine the product. Each model represents 1 whole. Sample work shown.

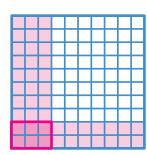
i Show your thinking.



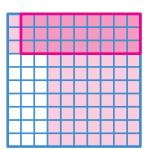


answer: _____0.16

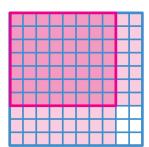




answer: <u>0.06</u>



answer: _____0.27



answer: _____0.56