

# Enrichment Packet #19

Due: Monday

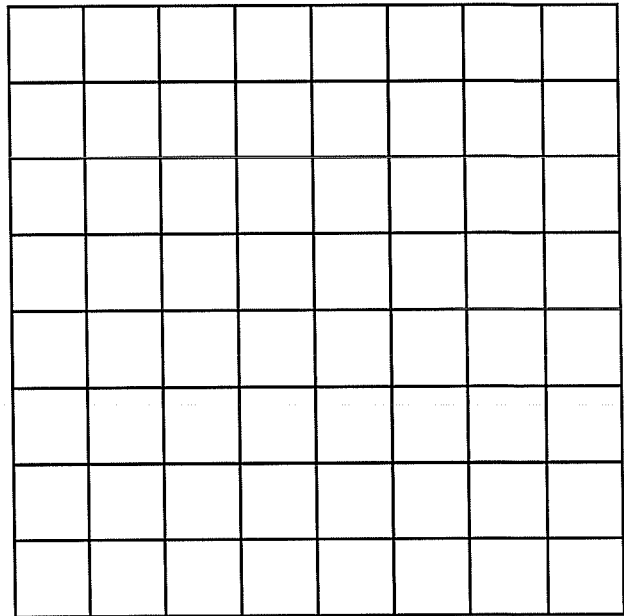
NAME: \_\_\_\_\_

Name \_\_\_\_\_

# Crazy Quilt

The plan at the right is for a quilt that the fourth grade is making. Use the clues below to color or label the different squares.

### Reasoning



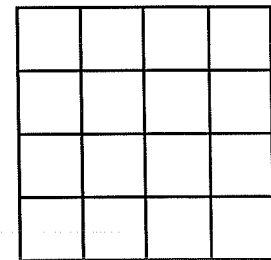
**Clue A**  $\frac{1}{16}$  of the quilt is colored yellow. It is in the center.

**Clue B**  $\frac{28}{64}$  of the quilt is purple. It does not touch the blue part.

**Clue C**  $\frac{12}{64}$  of the quilt is blue. It goes around the yellow section.

**Clue D** The green section of the quilt takes up all the remaining squares. Write a fraction that tells about the green section.

\_\_\_\_\_



**Create Your Own** Plan a quilt using the grid on the right. Keep it a secret! Write some clues using fractions and give it to a classmate to solve.

Clue 1. \_\_\_\_\_

\_\_\_\_\_

Clue 2. \_\_\_\_\_

\_\_\_\_\_

Clue 3. \_\_\_\_\_

\_\_\_\_\_

Clue 4. \_\_\_\_\_

\_\_\_\_\_

Name \_\_\_\_\_

Enrichment

**12-1**

# Decimal Patterns

## Patterns

Write the next two numbers in each pattern.

- 0.2, 0.4, 0.6, \_\_\_\_\_, \_\_\_\_\_
- thirty-three hundredths, thirty-four hundredths, thirty-five hundredths,  
\_\_\_\_\_, \_\_\_\_\_
- 1.7, 1.8, 1.9, \_\_\_\_\_, \_\_\_\_\_
- fourteen hundredths, sixteen hundredths, eighteen hundredths,  
\_\_\_\_\_, \_\_\_\_\_
- 1.27, 1.24, 1.21, 1.18, 1.15, \_\_\_\_\_, \_\_\_\_\_
- two tenths, twenty hundredths, three tenths, thirty hundredths, four tenths,  
\_\_\_\_\_, \_\_\_\_\_
- 1.45, 1.4, 1.35, 1.3, 1.25, \_\_\_\_\_, \_\_\_\_\_
- three tenths, six tenths, nine tenths, one and two tenths, one and five tenths,  
\_\_\_\_\_, \_\_\_\_\_
- five tenths, forty-five hundredths, four tenths, thirty-five hundredths, three tenths,  
\_\_\_\_\_, \_\_\_\_\_
- 2.2, 2.0, 1.8, 1.6, 1.4, \_\_\_\_\_, \_\_\_\_\_
- 0.09, 0.14, 0.19, 0.24, 0.29, \_\_\_\_\_, \_\_\_\_\_
- thirty-seven hundredths, thirty-three hundredths, twenty-nine hundredths, twenty-five hundredths, twenty-one hundredths,  
\_\_\_\_\_, \_\_\_\_\_

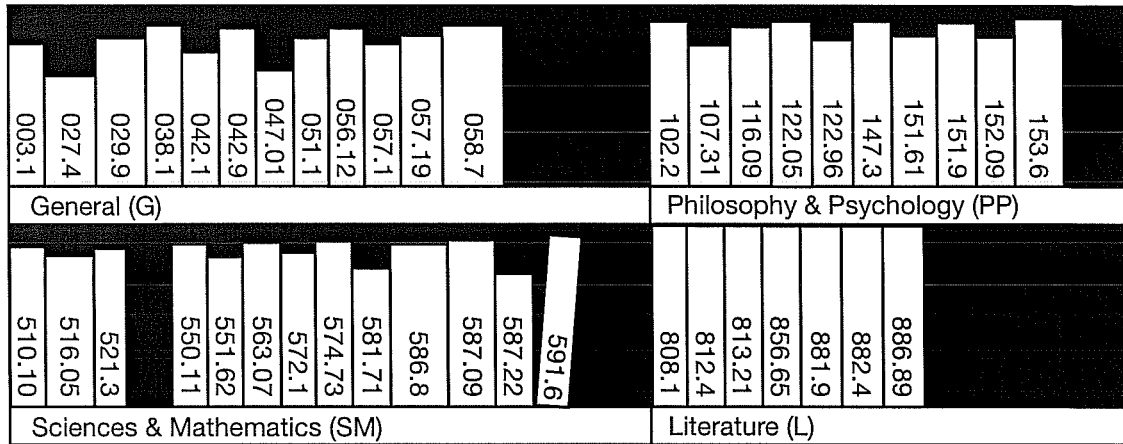
Enrichment 12-1

# Do We Decimal?

**Number Sense**

In many libraries, nonfiction books are placed on shelves in order according to the Dewey Decimal System.

Help the librarian decide where to put the list of books that have been returned. Write the abbreviation for the section where each returned book should be placed. Then write the exact place where each book should be shelved. The first book has been done for you.



1. 109.7 \_\_\_\_\_
2. 152.08 \_\_\_\_\_
3. 042.13 \_\_\_\_\_
4. 006.8 \_\_\_\_\_
5. 503.54 \_\_\_\_\_
6. 550.06 \_\_\_\_\_
7. 813.12 \_\_\_\_\_
8. 107.05 \_\_\_\_\_
9. 886.9 \_\_\_\_\_
10. 057.01 \_\_\_\_\_
11. 587.21 \_\_\_\_\_
12. 122.5 \_\_\_\_\_

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## Comparing Decimals (G)

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Instructions: Use  $>$ ,  $<$ , or  $=$  to compare the pairs of decimals below.

$0.091 \square 0.524$

$0.986 \square 0.988$

$2.552 \square 2.551$

$0.815 \square 0.812$

$0.419 \square 0.512$

$2.876 \square 2.875$

$1.685 \square 1.685$

$0.427 \square 0.424$

$0.617 \square 0.917$

$2.548 \square 2.551$

$1.884 \square 1.884$

$0.47 \square 0.470$

$0.03 \square 0.030$

$0.669 \square 0.671$

$0.907 \square 0.907$

$0.948 \square 0.95$

$1.812 \square 1.814$

$0.594 \square 0.592$

$1.475 \square 1.476$

$0.425 \square 0.912$

$0.341 \square 0.118$

$0.911 \square 0.725$

$0.49 \square 0.490$

$2.706 \square 2.707$

$0.266 \square 0.264$

$0.602 \square 0.6$

$0.049 \square 0.047$

$0.591 \square 0.593$

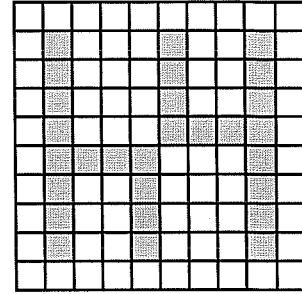
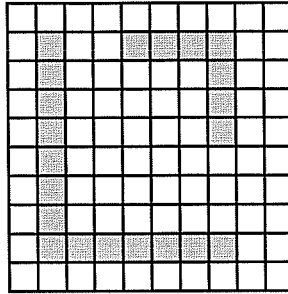
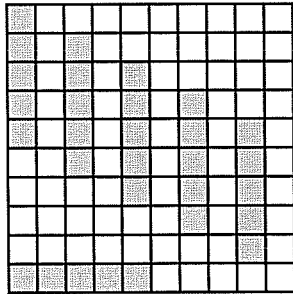
$0.53 \square 0.835$

$0.23 \square 0.230$

# Shady Spots

Each grid stands for one dollar. Darcy shaded designs to show parts of a dollar. How much of each large square is shaded? **Visual Thinking**

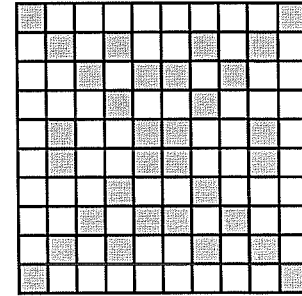
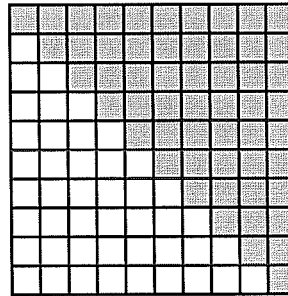
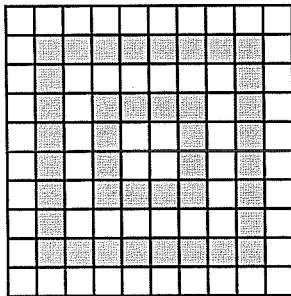
Write your answer as a money amount, a decimal, and a fraction.



1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_



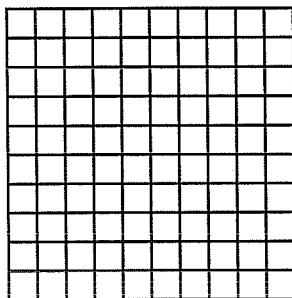
4. \_\_\_\_\_

5. \_\_\_\_\_

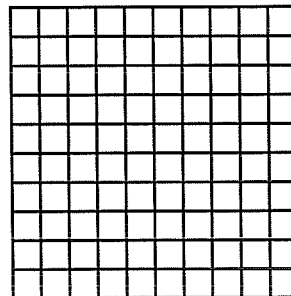
6. \_\_\_\_\_

Shade a design to show the money amount.

7. \$0.20



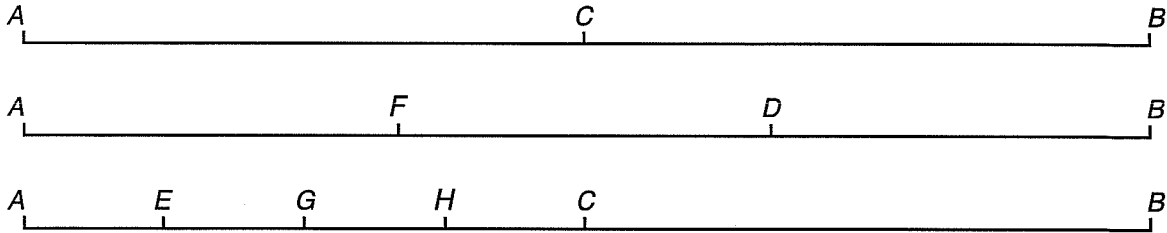
8. \$0.46



# A New Measure

Distance  $AB$  is a new measurement called a pflugel.

**Reasoning**



Write the fractional part of a pflugel.

1. Distance  $DB$

\_\_\_\_\_

2. Distance  $AE$

\_\_\_\_\_

3. Distance  $EC$

\_\_\_\_\_

4. Distance  $GB$

\_\_\_\_\_

Write the decimal part of a pflugel.

5. Distance  $AG$

\_\_\_\_\_

6. Distance  $CB$

\_\_\_\_\_

7. Distance  $EG$

\_\_\_\_\_

8. Distance  $AH$

\_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_



## MULTIPLYING FRACTIONS 1

To multiply two fractions together, simply multiply the two numerators and then the two denominators.

To multiply a fraction by a whole number, simply multiply the numerator by the integer.

Examples  $\frac{3}{4} \times \frac{2}{7} = \frac{3 \times 2}{4 \times 7} = \frac{6}{28}$        $\frac{2}{5} \times 6 = \frac{2 \times 6}{5} = \frac{12}{5}$

Multiply these fractions together. Your answer can be left as an improper fraction and does not need to be in simplest form.

1)  $\frac{1}{3} \times \frac{1}{2} = \frac{\quad}{6}$       2)  $\frac{1}{5} \times 3 = \frac{\quad}{5}$       3)  $\frac{1}{2} \times \frac{3}{7} = \frac{\quad}{14}$

4)  $\frac{2}{3} \times 4 = \frac{\quad}{3}$       5)  $\frac{1}{6} \times \frac{3}{4} = \frac{\quad}{24}$       6)  $\frac{3}{4} \times 5 = \frac{\quad}{4}$

7)  $\frac{3}{7} \times \frac{4}{5} = \frac{\quad}{\quad}$       8)  $7 \times \frac{4}{9} = \frac{\quad}{\quad}$       9)  $\frac{4}{9} \times \frac{1}{2} = \frac{\quad}{\quad}$

10)  $\frac{1}{8} \times \frac{3}{4} = \frac{\quad}{\quad}$       11)  $\frac{5}{7} \times \frac{2}{9} = \frac{\quad}{\quad}$       12)  $8 \times \frac{7}{9} = \frac{\quad}{\quad}$

13)  $\frac{4}{7} \times \frac{5}{6} = \frac{\quad}{\quad}$       14)  $\frac{3}{8} \times \frac{4}{9} = \frac{\quad}{\quad}$       15)  $\frac{2}{7} \times \frac{8}{9} = \frac{\quad}{\quad}$

16)  $\frac{5}{8} \times 6 = \frac{\quad}{\quad}$       17)  $\frac{4}{7} \times \frac{5}{4} = \frac{\quad}{\quad}$       18)  $11 \times \frac{3}{8} = \frac{\quad}{\quad}$

19)  $\frac{5}{12} \times \frac{4}{5} = \frac{\quad}{\quad}$       20)  $\frac{4}{7} \times 14 = \frac{\quad}{\quad}$       21)  $\frac{5}{4} \times \frac{4}{9} = \frac{\quad}{\quad}$



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