

Enrichment Packet #16

Due: Monday

NAME: _____

Name _____

Enrichment

10-5

Parts of a Region

Visual Thinking

A **fraction** names equal parts of a region.

The **numerator** tells the number of equal parts shaded.

The **denominator** tells the total number of equal parts.



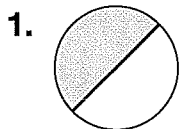
3 shaded parts

5 parts in all

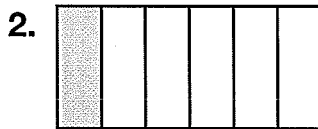
3 out of 5 equal parts of the rectangle are shaded.

There are five equal parts, so the shaded parts are three fifths, or $\frac{3}{5}$, of the rectangle.

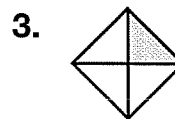
Circle the fraction for the shaded parts of each region.



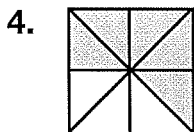
$\frac{1}{4}$ $\frac{1}{3}$ $\frac{1}{2}$



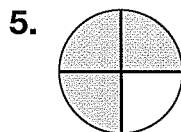
$\frac{1}{5}$ $\frac{1}{6}$ $\frac{5}{6}$



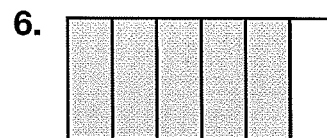
$\frac{1}{4}$ $\frac{1}{3}$ $\frac{3}{4}$



$\frac{5}{3}$ $\frac{5}{8}$ $\frac{3}{8}$

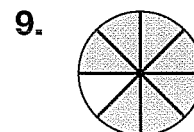
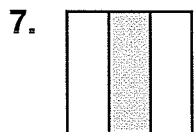


$\frac{1}{4}$ $\frac{3}{1}$ $\frac{3}{4}$



$\frac{5}{6}$ $\frac{5}{5}$ $\frac{1}{6}$

Write the fraction for the shaded parts of each region.



Name: _____

Puzzle A-1

Kids' Sudoku

Level: Piece of Cake

How to play:

Each row (across) must contain the numbers 1 through 9.
Each column (up and down) must contain the numbers 1 through 9.
Each square box must contain the numbers 1 through 9.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 6 | 5 | 7 | 9 | 4 | | 3 | 8 |
| 4 | | 7 | | | 2 | | 5 | |
| 9 | 3 | | | | 6 | | | 4 |
| 8 | 1 | | 4 | | 5 | | | 2 |
| 5 | 7 | 6 | 2 | 3 | 9 | 4 | | |
| 2 | | | 6 | | 1 | | 7 | 5 |
| 3 | | 1 | 5 | | 7 | 8 | 4 | 9 |
| 6 | 9 | | | | | 5 | 2 | 7 |
| | 5 | | | 2 | 8 | 1 | | 3 |

Recreation Time!

Reasoning

1. Timothy has computer class 3 times a week. Each class is 45 minutes long. How many hours of computer class does Timothy have per week? In 4 weeks?

2. Alex practices soccer 4 times a week for 50 minutes each practice. How many total hours does Alex practice soccer per week? In 2 weeks?

3. Laurel went swimming 7 times in 3 weeks. One time she swam for $1\frac{1}{2}$ hours. The other 6 times she swam for 30 minutes each time. How many hours did Laurel swim in 3 weeks?

4. Caitlin, Cindy, and Connie went jogging at the recreation center. Caitlin jogged for 40 minutes, Cindy jogged for 30 minutes, and Connie jogged for 70 minutes. What was the total amount of time they jogged altogether?

5. Dena takes karate classes every Tuesday and Thursday. Each class is 55 minutes long. How many hours of class will Dena have in 3 weeks?

6. Jack spent $9\frac{3}{4}$ hours practicing ice hockey with his team. How many $\frac{1}{4}$ hours is that?

7. Misa takes 3 dance classes each week. Ballet class is 45 minutes long, modern dance is 50 minutes long, and jazz dance is 35 minutes long. How many hours of dance class does Misa have in 2 weeks?

8. Carlos practices piano every Monday, Wednesday, and Friday for 35 minutes each day. He also practices guitar every Tuesday, Thursday, and Saturday for 30 minutes each day. How many hours does Carlos spend practicing musical instruments each week?

Comparing Outcomes

Tiffany tossed a number cube 12 times. Then she made a tally chart to show each time the cube showed each face.

Mental Math

| | | | | | | |
|---------------|---|---|---|---|---|---|
| Face | 1 | 2 | 3 | 4 | 5 | 6 |
| Number | | | | | | |

1. Complete the table to show the fraction of tosses for each face of the number cube.

| | | | | | | |
|------------------------------------|----------------|---|---|---|---|---|
| Face | 1 | 2 | 3 | 4 | 5 | 6 |
| Fraction (out of 12 tosses) | $\frac{1}{12}$ | | | | | |

Compare the fractional results for each face by writing $>$, $<$, or $=$ in each .

2. Face 1 Face 2
3. Face 3 Face 5
4. Face 5 Face 4
5. Face 2 Face 6

Tiffany tossed a coin 10 times and had 6 heads and 4 tails. Then she tossed a coin 20 times and had 8 heads and 12 tails.

6. Complete the table to show the fractions of heads and tails Tiffany tossed.

| Outcome | Heads | Tails |
|--------------------|--------------|--------------|
| Fraction out of 10 | | |
| Fraction out of 20 | | |

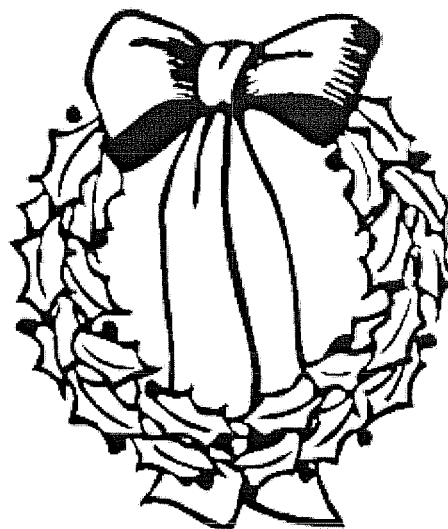
Compare the fractional results for each set of tosses by writing $>$, $<$, or $=$ in each .

7. heads out of 10 tails out of 10
8. heads out of 20 tails out of 20
9. heads out of 10 heads out of 20
10. heads out of 10 tails out of 20

Name: _____

$$\begin{array}{r} 99 \\ \times 84 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 15 \\ \hline \end{array}$$



$$\begin{array}{r} 65 \\ \times 47 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 49 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 98 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 51 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ \times 74 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ \times 70 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \times 72 \\ \hline \end{array}$$

