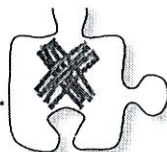


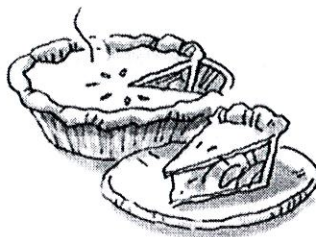
6.1.3 How many pieces? What is the whole?



Problem Solving with Division

10-27

6-27. For each word problem below, write a matching number sentence and then find the solution. A diagram might be helpful when finding solutions.



- a) How many $\frac{1}{6}$ pie slices are in 3 pies?
- b) How many $\frac{1}{4}$ pie slices are in 2 pies?
- c) In 4 pies, how many $\frac{1}{2}$ pies are there?
- d) How many quarter-pies make three whole pies?

10-29

6-29 For each word problem below, write a matching number sentence and then find the solution.

a) What is $\frac{1}{4}$ of \$5?

Reminder: this indicates "of" multiplication.

b) How many quarters are in \$5?

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

c) How many half-dollars make \$30?

Two for every \$1.00

d) What is $\frac{1}{2}$ of 30?

6-30 Use the problem $10 \div 4$ for the following problems.

a)

a) Create a visual solution (think about 10 licorice shared by 4 people).

10-30

b) Write the solution as many ways as you can. (Consider using an improper fraction, long division and decimals).

remainder }

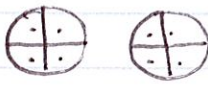
Pieces.

$$b) 10 \div 4 = \frac{10}{4} = 2\frac{2}{4} = 2\frac{1}{2} = 2.5 = 2\frac{5}{10}$$


$$\begin{array}{r} 4 \overline{) 10.00} \\ \underline{-8} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

optional diagrams

10-27 a) $3 \div \frac{1}{6} = 18$ slices 

b) $2 \div \frac{1}{4} = 8$ slices 

c) $4 \div \frac{1}{2} = 8$ half-pies 

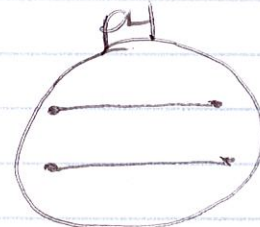
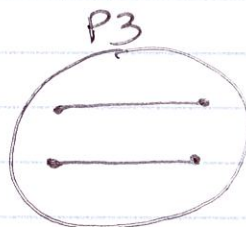
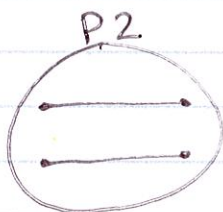
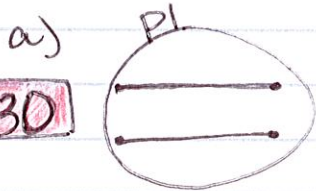
d) $3 \div \frac{1}{4} = 12$ quarter-pies 

10-29 a) $\frac{1}{4} \times \frac{5}{1} = \frac{5}{4} = \$1.25 = 1\frac{1}{4}$

b) $5 \div \frac{1}{4} = 20$ 

c) $30 \div \frac{1}{2} = 60$

d) $\frac{1}{2} \cdot \frac{30}{1} = \frac{30}{2} = 15$



remainder



Each person would get $2\frac{2}{4}$ pieces.

b) $10 \div 4 = \frac{10}{4} = 2\frac{2}{4} = 2\frac{1}{2} = 2.5 = 2\frac{5}{10}$

$$\begin{array}{r} 02.5 \\ 4 \overline{) 10.00} \\ \underline{-8} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$