

## Ideas

Prepared by Marilyn Hall /acobson

litke I Wathermattic (o-orstinator
Wromose (ounts Commumity School Corporation, Bloonington, Indiana
and M. Bernadine Tabler
Ashlant Instruc lor, Indiana University, Bloomington, Incliana

Reprinted with permission from the Arithmetic Teacher, October 1980 (Vol. 28, No. 2), copyright 1980 by the National Council of Teachers of Mathematics.

The Ideas for this month consist of two problem-solving posters with a Halloween theme. Some of the problems can be easily solved and have only one solution. Others will take students more time, especially if they find all the possible solutions.

## IDEAS For Teachers

Levels 1-4
HAUNTED HOUSE
Objective
To use information from a chart to help solve problems.

## Directions

Put the poster on the bulletin board. For younger children, review chart and go over the questions that are to be answered. Provide a place near the poster for the students to hand in their answers.

Answers

1. Fairview Elementary School
2. Four hours
3. One and one-half hours
4. Seventy cents
5. Dimes Nickels Fennies

| 1 | 0 | 0 |
| ---: | ---: | ---: |
| 0 | 2 | 0 |
| 0 | 1 | 5 |
| 0 | 0 | 10 |

6. Ghosts 11 and 12
7. Ghosts Children

| 0 | 4 |
| :--- | :--- |
| 2 | 3 |
| 4 | 2 |
| 6 | 1 |
| 8 | 0 |

## IDEAS For Teachers

Levels 4-8
TRICKS OR TREATS
Objective
To provide experience in problem solving.

Directions
Put the poster on the bulletin board. Encourage the students to attempt to solve the problems. Provide a place near the poster for the students to hand in their solutions. Assigning one or two problems a day would be a reasonable assignment.

Answers
1.

| Pennies | Nickels | Dimes |
| :---: | :---: | :---: |
| 20 | 0 | 0 |
| 15 | 1 | 0 |
| 10 | 2 | 0 |
| 10 | 0 | 1 |
| 5 | 3 | 0 |
| 5 | 1 | 1 |
| 0 | 4 | 0 |
| 0 | 2 | 1 |
| 0 | 0 | 2 |

2. Nickels $\quad$ Dimes $\quad$ Quarters
3. 12 snakes and 18 wings
4. 14 snakes and 21 wings
5. Packs of lizard Packs of bat

| ears | ears |
| :---: | :---: |
| 9 | 0 |
| 6 | 2 |
| 3 | 4 |
| 0 | 6 |

6. Packs of lizard $\left.\begin{array}{cc}\text { ears }\end{array} \begin{gathered}\text { Packs of bat } \\ \text { ears }\end{gathered} \right\rvert\,$
7. Pumpkins \#2 and \#5.

8. Wanda Witch will cast a spell for 20 c. Show the ways that Wanda can be paid exactly 20c.
9. Dried black snakes cost \$1.40. Wendell Warlock paid for one snake with quarters, dimes and nickels. He used 14 coins. How many of each coin did he use?
10. Wanda is going to use six frogs. How many snakes and wings will she need?
11. Walter seven many wings


## $r$

ig to use How and need?
5. Wilma Witch bought a total of 18 ears. How many of each kind could she have bought?
6. Walter Warlock spent
$\$ 4.00$ for ears. What could he have bought?
7. Which two pumpkins are carved exactly alike?


# Haunted House 

Place: Fairview Elementary School
Open: 4:00-6:00 p.m. Friday 11:00-3:00 p.m. Saturday

Admission: Children $20 ¢$
Ghosts $10 ¢$

1. Where is the Haunted House?
2. How many hours will it be open cin Saturday?
3. If you go to the

Haunted House at 4:30
p.m. on Friday, what is
the longest you can
stay?
4. How much would it
cost three ghosts and two children to get in?
5. Show the ways that a ghost can pay exactly 10c to get in.
6. Which two ghosts are shaped exactly alike?
7. It cost 80 c for some ghosts and children to get in. How many of each could there be?

From the Arithmetic Teacher, October 1980


