

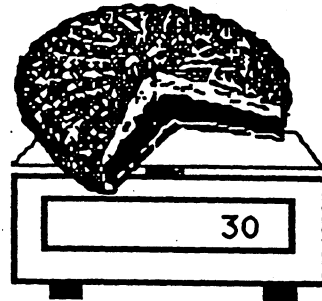
SUNSHINE MATH - 5

Saturn, XXII

Name: _____

(This shows my own thinking.)

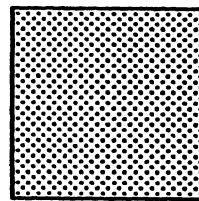
- ★ 1. Let p stand for the weight of a whole pie. The equation $\frac{3}{4}p = 30$ shows the situation on the scale. How much did the whole pie weigh? Use your number sense.



Answer: $p =$ _____

- ★★★ 2. A square inch is shown to the right.

Bubble-in the best estimate below of the area, in square inches, of this sheet of paper.



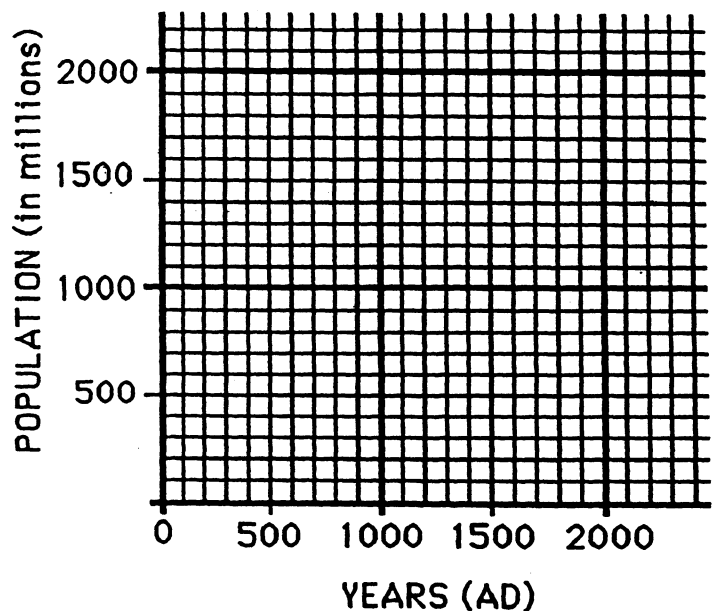
50 in² 90 in²

125 in² 150 in²

- ★★ 3. Make a *line graph* of the world population figures shown below. Use the graph paper to the right. Then answer this question: *If the population continues to increase as the graph shows, what will it be in 2000 AD?* _____

World Population

Year (AD):	Population (millions):
1	300
1000	350
1600	450
1700	700
1800	1,000
1900	1,700



- ★★★★ 4. A machine changes the first number into the second number. Study the pattern and predict the rule the machine uses to change one number into another.

1	fi	7
2	fi	10
3	fi	13
⋮	⋮	⋮
10	fi	34
⋮	⋮	⋮
100	fi	304

- a. What will the machine produce for 40? _____
- b. What will the machine produce for 50? _____
- c. The machine produced 904. What number did it start with? _____
- d. Describe the way the machine changes a number n :

- ★★ 5. There are about 3,400 species of frogs and toads, and scientists tell us that they represent 90% of the amphibians in the world. Using this information, what is the total number of amphibian species scientists believe are in the world. (Round your answer to the nearest 100.)

Answer : _____

- ★ 6. Suzanne ordered a sandwich and a soda. The total, plus tax, came to \$4.76. Suzanne gave the clerk \$5.01. What is a good reason for Suzanne to give the clerk the extra penny?

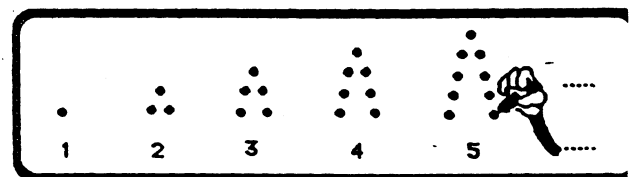
Answer: _____

- ★★ 7. The missing digits for this problem are 0, 2, 4, 6, and 8. Put them in their correct boxes.

$$\square \square \square \square \times \square = 32,208$$

- ★★★★ 8. Draw this pattern on scratch paper.

- a. How many dots in the next 3 figures?
_____, _____, and _____



- b. How many dots for the 50th figure? _____

- c. How many dots for the 1000th figure? _____