

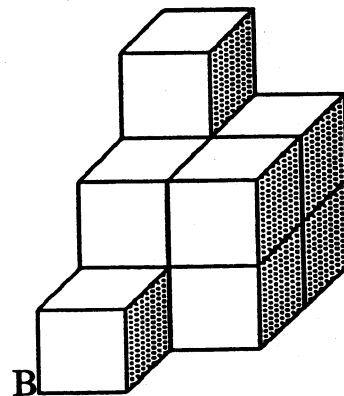
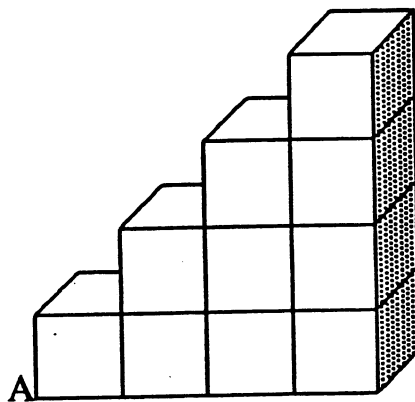
SUNSHINE MATH - 7
Neptune, XXI

Name: _____
(This shows my own thinking.)

- ★★ 1. Suzie entered an elevator in a tall building. She rode up three floors, down 5 floors, up 7 floors and then down 9 floors. She found herself on the 23rd floor. On what floor did she enter the elevator?

Answer: _____

- ★★★★ 2. The following figures are both made from 10 cubes and so have the same volume. If you had to paint the **outside surfaces** of the cubes, including the bottom surface, which figure would require more paint?



Answer: _____

- ★ 3. A number x is divided by 6 and then 3 is subtracted from the result to give 4. What is the original number x ?

Answer: $x =$ _____

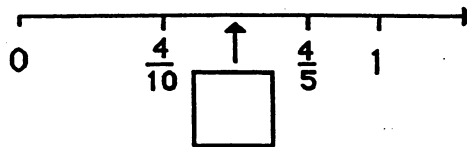
- ★ 4. Fill in the blank from the choices given to make the sentence true:

If the length of each side of a square is a whole number, the perimeter of the square could not be _____.

- a) 96 c) 300
b) 152 d) 462

- ★★ 5. The supplement of an obtuse angle is always a(an) _____ angle.

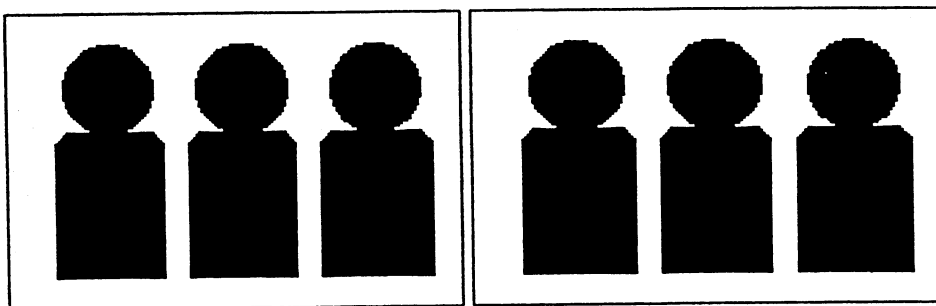
- ★★★ 6. The two points $\frac{4}{10}$ and $\frac{4}{5}$ are shown on the number line. Label the mid-point between them as a fraction in lowest terms.



- ★★★ 7. How many 2-inch square tiles are needed to make a square design that is 14 inches on each side, if there are no spaces between tiles?

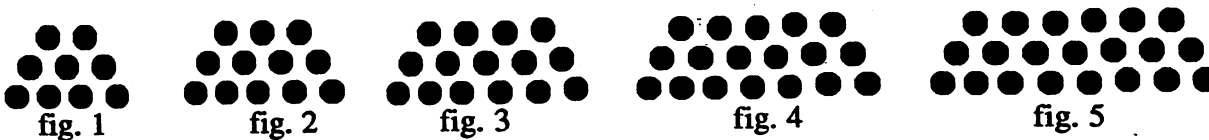
Answer: _____

- ★★★ 8. John has 4 more brothers than sisters. How many more brothers than sisters does his sister Mary have?



Answer: _____

- ★★★ 9. Consider the pattern of figures below.



- (a) How many dots are needed to make figure 6? _____
 (b) How many dots are needed to make figure 7? _____
 (c) How many dots are needed to make figure 100? _____
 (d) How many dots are needed to make figure n for any number n ? _____