

MATH SUPERSTARS – 3

Mars, XXV

Name: _____

(This shows my own thinking.)

- ★★ 1. Find the value of ■ and ▲. Use the two number sentences below for clues.

$$\blacksquare + \blacksquare + \blacktriangle = 12 \text{ and also } \blacktriangle + \blacktriangle + \blacksquare = 15$$

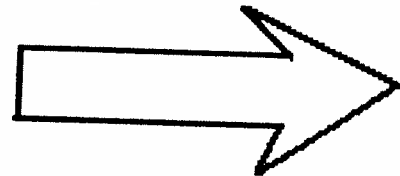
Answer: ■ is _____ ▲ is _____

- ★★★ 2. Write the answers in the _____ in each sentence below.

- a. Paul saw 5 chickens and 6 cows.
He saw _____ legs in all.
- b. Sue counted 26 legs.
She saw 4 cows and _____ chickens.
- c. Pam counted 40 legs.
She saw _____ cows and 8 chickens.



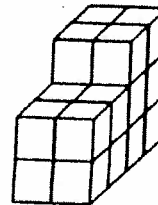
- ★★ 3. Estimate the length of the arrow in centimeters. Then measure the arrow with a ruler. Record both answers.



Answer: Estimate: _____ cm

Actual: _____ cm

- ★★ 4. Count the cubes to find the *volume* of the steps. Remember there are some cubes you cannot see.



Answer: The volume is _____ cubes.

★★ 5. Study the sequence and fill in the missing numbers.

1, 7, 5, 11, 9, 15, 13, _____, _____, 23, _____

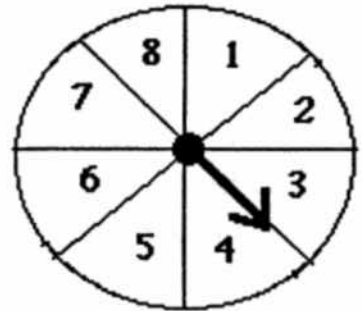
★★★ 6. Pam's mother baked a pie for her family. It was divided into 6 pieces. Pam's Dad ate $\frac{1}{2}$ of the pie. Mom ate $\frac{1}{3}$ and Pam ate $\frac{1}{6}$ of the pie. How many pieces did each person eat?



Answer:

Dad: _____ pieces; Mom: _____ pieces; Pam: _____ pieces.

★★★ 7. This spinner is divided into 8 parts. Sally and her friends are going to use it to play "Spin the Sum." Study the spinner and the questions. Write your answer as a fraction:



a. What are the chances of getting a spin higher than 4?

b. What are the chances of getting a spin higher than 6?

c. What are the chances of getting a spin lower than 4?

★★★ 8. Make 3 rectangles with different lengths and widths. Each rectangle should have an *area* of 24 's.

