

SUPERSTARS III

Pluto, XII

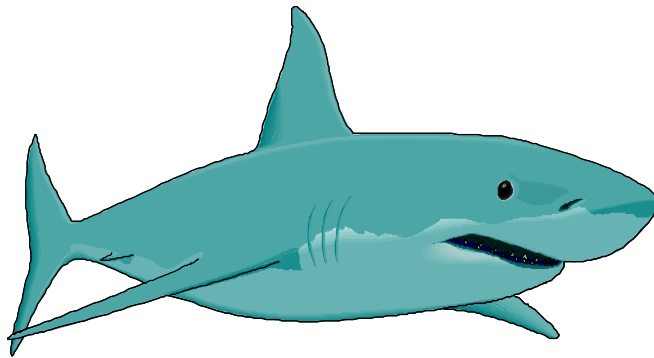
Name: _____

(This shows my own thinking.)

- ★★1. Caitlin's shadow is 10 feet long at the same time that the shadow of a nearby statue is 24 feet. If Caitlin is 5 feet tall, how tall is the statue?

Answer: _____ feet

- ★★★★2. The computerized range-finder on the undersea filmmaker's camera told her that a grouper started 60 fin strokes ahead of a bull shark. The bull shark made two strokes to every three made by the grouper; but the shark's stroke covered as much distance as the grouper covered in seven strokes. How many strokes did the shark take before it swallowed the grouper?



Answer: _____ strokes

- ★★★3. If a golf ball weighs 40 grams and half a golf ball, what does a golf ball and a half weigh?

Answer: _____ grams



- ★4. There are 3 pencils, 4 pens, and 2 markers in Jill's purse, all identical to the touch. What is the probability she will pull out a pencil if she reaches in without looking?

Answer: _____

- ★★★5. Craig wants to paint his room royal purple. The length of his room is 15 feet and the width is 10 feet. The walls are 9 feet tall. If one wall has a window that is 3 feet by 2 feet and another has a door that is 3 feet by 8 feet, how many square feet will he be covering with paint?

Answer: _____ square feet

- ★★6. Spike Nashbar is shipping volleyball nets to Italy. The nets are 32 feet wide and 3 feet high. The Italians use the metric system -- how long and how high are the nets in meters? (Hint: 1 in. = 2.54 cm)

Answer: _____ meters wide and _____ meters wide



- ★★★7. To motivate Reba to work her physics problems correctly, her dad said he'd pay her a quarter for each correct answer and fine her a dime for each incorrect answer. If she received \$3.80 after doing 25 problems, how many problems did Reba answer correctly?

Answer: _____ answered correctly

- ★8. A robot arm can attach 300 bolts in 6 minutes. If there are 50 bolts on each item, how many items are completed in an hour?

Answer: _____ items

- ★★9. Consider the last two page numbers of a book.

a. Is their sum an even number, or an odd number? _____

b. Is their product an even number, or an odd number? _____



- ★10. If a doctor prescribed 36 pills and directed you to take them every 4 hours, how many days would they last?



Answer: _____ days