

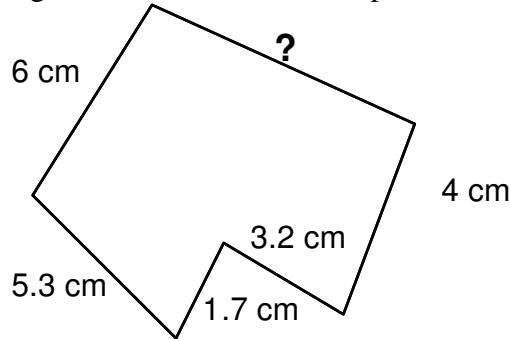
# SUPERSTARS III

Saturn, XVI

Name: \_\_\_\_\_

(This shows my own thinking.)

- ★★ 1. Find the missing measurement. The total perimeter of the polygon is 27 cm.



Answer: \_\_\_\_\_ cm

- ★★ 2. Fill the missing numbers in the division problem.

$$\begin{array}{r}
 \square \square \\
 \square 3 \overline{) 351} \\
 \square \square \\
 \hline
 \square 1 \\
 \underline{91} \\
 0
 \end{array}$$

- ★★★ 3. When you divide, you sometimes get a larger number than you started with. Show you understand this by placing the decimal points in the answers below. The answers have the correct numerals, but placement of the decimal point will determine the answer.

a.  $1.25 \div 0.5 = 250$

b.  $0.84 \div 0.7 = 120$

c.  $13 \div 0.1 = 1300$

- ★★ 4. Report cards are coming out in three days. Your homework grades are 100, 90, 85, 78, 0, 80, and 92. The 0 occurred when you forgot to do your homework one night. What is the average of your homework grades?

Answer: \_\_\_\_\_

- ★★ 5. Using the grades from problem 4, what would your average be if you had done your homework that night, and made a 77 instead of a 0?

Answer: \_\_\_\_\_

- ★★★★ 6. Write an algebraic expression for each phrase below. Use the variable suggested.

a. twice as old as Max's age  $a$ , less three years \_\_\_\_\_

b. 10 times higher than the chair's height  $h$ , plus 3 inches \_\_\_\_\_

c. \$3 more than half of what Jason makes  $d$  \_\_\_\_\_

d. five trips of  $x$  miles each, plus another 5.8 miles \_\_\_\_\_

- ★★ 7. Kalia skateboards 5 blocks west and 8 blocks north to get to her friend's house. Each block is  $\frac{1}{8}$  mile in length.



a. How far does she travel in a round trip? \_\_\_\_\_ miles

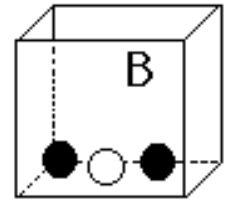
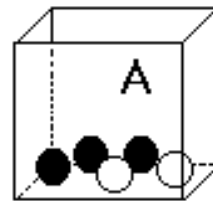
b. Rounded to the nearest whole mile, how far is a round trip? \_\_\_\_\_ miles

- ★ 8. Bailey has physical education class  $1\frac{1}{4}$  hours on Monday, Wednesday, and Friday. How many minutes does he get physically educated each week?

Answer: \_\_\_\_\_ minutes

- ★★★★ 9. Box A has 3 black marbles and 2 white marbles.  
Box B has 2 black marbles and 1 white marble.

If you have to close your eyes and pick a *black* marble to win a prize, which box gives you the best chance of winning? Bubble-in your answer.



Box A gives the best chance.

Box B gives the best chance.

The boxes give the same chance of winning.