



### Algebra Alley

In triangle ABC, angle A =  $2x^\circ$ ,  
 angle B =  $(x - 45)^\circ$  and  
 angle C =  $(x-15)^\circ$ .

What kind of triangle is ABC?

(Review)



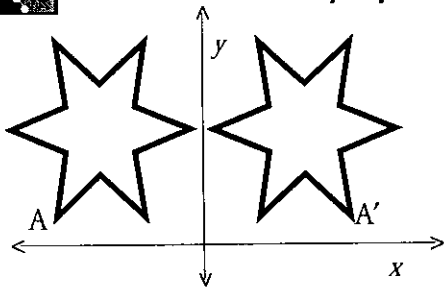
### What's The Problem?

Four students are called to sit in four chairs on a stage. The students are Bob, Wanda, Carol, and Don. Bob and Wanda are cousins. If the students are called up in random order and take seats in the order in which they are called, what is the probability that Bob and Wanda will sit next to each other?

(Review)



### Mathematically Speaking



If the star was reflected over line  $y$ , and  $A$  has coordinates  $(-7, 3)$ , what are the coordinates of its image  $A'$ ?

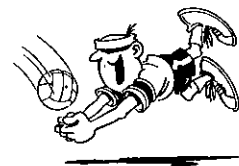
(Review)



### All About Data

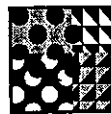
A survey of 100 volleyball players' weights had the following results:

- 120 lbs 12 students
- 125 lbs 18 students
- 130 lbs 15 students
- 135 lbs 16 students
- 140 lbs 20 students
- 145 lbs 19 students



How does the mean weight of these volleyball players compare with the median?

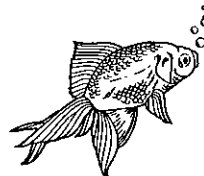
(Review)



### Geometry Wrap Up

An aquarium is 36 inches long, 24 inches wide and 16 inches tall. The aquarium is filled with distilled water to a level of 12 inches. If a cubic foot of distilled water weighs 62.4 pounds, how many pounds of water are in the aquarium? Express your answer as a decimal correct to tenths place.

*From 1996-97 Mathcounts School Handbook*



(3.01)



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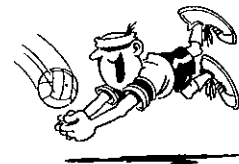
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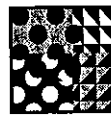
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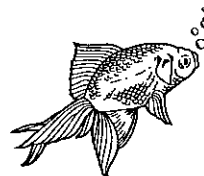
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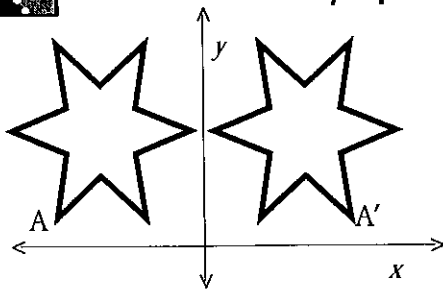
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# Keeping Skills Sharp

Write answers here:

1.  $3 + 8 \cdot 2 - 5 =$

1. \_\_\_\_\_

2.  $10\% \text{ of } 100 =$

2. \_\_\_\_\_

3.  $9 \cdot 7 \cdot 5 =$

3. \_\_\_\_\_

4.  $12 \div 4 + 5 \cdot 2 - 24 \div 6 =$

4. \_\_\_\_\_

5.  $2[(4 + 11) \div (12 - 7)] =$

5. \_\_\_\_\_

6.  $\frac{42 + 3}{17 - 8} =$

6. \_\_\_\_\_

7.  $.97(10) =$

7. \_\_\_\_\_

8.  $3\frac{1}{3} + 2\frac{1}{7} =$

8. \_\_\_\_\_

9.  $.343 \div 10 =$

9. \_\_\_\_\_

10.  $36 \div 0.6 =$

10. \_\_\_\_\_



## Mental Math

Directions to Students:

Write your answers as the questions are called out. Each question will be repeated only once.

1

6

2

7

3

8

4

9

5

10