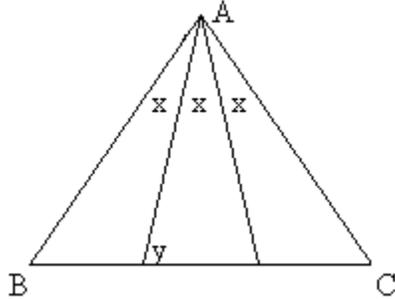
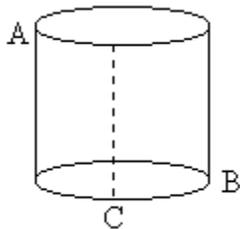


## Numeric Entry Test 10

1. A time lapse camera takes pictures once every 40 seconds. How many pictures does it take in a 24 hour period? (Assume that it takes its first picture 40 seconds after the start of the time period.)



- Triangle ABC is equilateral. What is the degree measure of angle  $y$ ? (Ignore the degree sign when gridding your answer)
- If a sack of dried dog food feeds 4 dogs or 5 puppies for one week, then 5 sacks of the food will feed 15 puppies and how many dogs?
- The sum of three numbers is 6. Each number is increased by 20 and the new numbers are multiplied by 10. What is the sum of the resulting numbers?
- What is the largest odd-numbered factor of 4500?



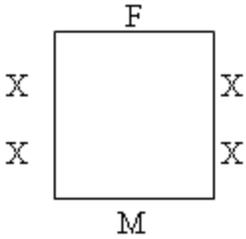
- Points A and B are on the top and bottom edges of a cylindrical roll of paper of height 8 and circumference 12. A and B are diagonally opposite each other. The paper is cut along line C and opened out. How far apart are A and B on the flat surface?
- 2 cars travel from the same point along parallel lanes of a highway for a distance of 10 miles. When car M, travelling at 60 miles an hour reaches the end of the distance, how much further will car N have to travel if it is travelling at 48 miles an hour?

8. ♣ ♥ ¥ ♠ □

How many different **3-symbol** arrangements of the symbols above are possible if the symbol  $\square$  must be in the last position, and the symbol  $\clubsuit$  can be used in only one arrangement. The other symbols can be used more than once in an arrangement.

$$\text{If } \frac{2+3}{x} = \frac{2+x}{3}$$

- What one value for  $x$  can be correctly entered into the answer grid?



10. Family 1 comprising mother, father and son are to be seated at a table with family 2 comprising mother, father and daughter. The layout of the table is shown in the diagram. F represents one of the fathers and M represents one of the mothers. X represents any family member. If a male family member must sit opposite a female of the other family, how many different seating plans are possible?

## Answer Key

1. 2160
2. 80
3. 8
4. 660
5. 1125
6. 10
7. 2
8. 10
9. 3
10. 16