

## Math for Graphics

When converting pica into inches you will need to know how many there are in an inch. The same is true for converting points to picas as well as inches. The rule here is that they are divisible by 6 and 12. For instance; 12 points = 1 pica, 72 points = 1 inch so 6 pica = 1 inch. When converting this on your computer you will take the number 12 into the number of points and the remainder is placed at the end and written as 1p6, or 3p6 etc.

Examples:

48 points = 4p0, because 48 divided by 12 = 4 with no remainder

64 points = 5p4, because 64 divided by 12 = 5 with a remainder of 4

66p = 11 inches

49p6 = 8  $\frac{1}{4}$  inches

Since there are 6 picas per inch you can determine your layout and margins by knowing that 3p =  $\frac{1}{2}$  inch, it gets a little more complicated when using fractions smaller than  $\frac{1}{4}$  of an inch which is 1p6. The markings on your pica will help with that as well as knowing that there are 72 points in an inch. Determine the simplest form when writing out the following measurements. Try not to use a calculator use some scrap paper and figure it out. You may use a pica from the back room if you would like.

32 points = \_\_\_\_ p \_\_\_\_

1  $\frac{3}{4}$  inches = \_\_\_\_ p \_\_\_\_

6p7 = \_\_\_\_ points

28 points = \_\_\_\_ p \_\_\_\_

$\frac{3}{4}$  inch = \_\_\_\_ p \_\_\_\_

66p = \_\_\_\_ points

14 points = \_\_\_\_ p \_\_\_\_

$\frac{1}{2}$  inch = \_\_\_\_ p \_\_\_\_

12p6 = \_\_\_\_ points

54 points = \_\_\_\_ p \_\_\_\_

2 inches = \_\_\_\_ p \_\_\_\_

144p = \_\_\_\_ points

80 points = \_\_\_\_ p \_\_\_\_

15 inches = \_\_\_\_ p \_\_\_\_

10p6 = \_\_\_\_ points

66 points = \_\_\_\_ p \_\_\_\_

7  $\frac{1}{2}$  inches = \_\_\_\_ p \_\_\_\_

14p = \_\_\_\_ points

18 points = \_\_\_\_ p \_\_\_\_

3  $\frac{1}{2}$  inches = \_\_\_\_ p \_\_\_\_

13p6 = \_\_\_\_ inches

24 points = \_\_\_\_ p \_\_\_\_

1  $\frac{1}{4}$  inches = \_\_\_\_ p \_\_\_\_

4p6 = \_\_\_\_ inches

8 points = \_\_\_\_ p \_\_\_\_

13  $\frac{1}{2}$  inches = \_\_\_\_ p \_\_\_\_

75p = \_\_\_\_ inches

72 points = \_\_\_\_ p \_\_\_\_

6  $\frac{3}{4}$  inches = \_\_\_\_ p \_\_\_\_

90p = \_\_\_\_ inches

50 points = \_\_\_\_ p \_\_\_\_

3 inches = \_\_\_\_ p \_\_\_\_

66p = \_\_\_\_ inches

48 points = \_\_\_\_ p \_\_\_\_

11 inches = \_\_\_\_ p \_\_\_\_

127p6 = \_\_\_\_ inches