

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 = 5p7

28 points = 4p8

14 points = 2p4

54 points = 9p0

80 points = 13p4

66 points = 11p0

18 points = 3p0

24 points = 2p0

8 points = 0p8

72 points = 12p0

50 points = 8p4

$$48 \text{ points} = 8\text{p}0$$

$$1 \frac{3}{4} \text{ inches} = 10\text{p}6$$

$$\frac{3}{4} \text{ inch} = 4\text{p}6$$

$$\frac{1}{2} \text{ inch} = 3\text{p}0$$

$$2 \text{ inches} = 12\text{p}0$$

$$15 \text{ inches} = 90\text{p}0$$

$$7 \frac{1}{2} \text{ inches} = 45\text{p}0$$

$$3 \frac{1}{2} \text{ inches} = 21\text{p}0$$

$$1 \frac{1}{4} \text{ inches} = 7\text{p}6$$

$$13 \frac{1}{2} \text{ inches} = 81\text{p}0$$

$$6 \frac{3}{4} \text{ inches} = 40\text{p}6$$

$$3 \text{ inches} = 18\text{p}0$$

$$11 \text{ inches} = 66\text{p}0$$

6p7 = 79points

66p = 792points

12p6 = 150 points

144p = 1728 points

10p6 = 126 points

14p = 168points

13p6 = 2.27 inches

4p6 = .75 or 3/4 inches

75p = 1.04 inches

90p = 1.25 inches

66p = .92 inches

127p6 = 21.25 inches