

Graphic Arts  
Unit Conversion Worksheet

Name Key

1. How many points is a 2.5-ft x 6-ft banner?

$$\frac{2.5\text{ft}}{1} \cdot \frac{12\text{in}}{1\text{ft}} \cdot \frac{72\text{pts}}{1\text{in}} = 2160\text{pts}$$

$$\frac{6\text{ft}}{1} \cdot \frac{12\text{in}}{1\text{ft}} \cdot \frac{72\text{pts}}{1\text{in}} = 5184\text{pts}$$

$$2160\text{pts} \times 5184\text{pts}$$

2. How many picas is a 2.5-ft x 6-ft banner?

$$\frac{2.5\text{ft}}{1} \cdot \frac{12\text{in}}{1\text{ft}} \cdot \frac{6\text{p}}{1\text{in}} = 180\text{p}$$

$$\frac{6\text{ft}}{1} \cdot \frac{12\text{in}}{1\text{ft}} \cdot \frac{6\text{p}}{1\text{in}} = 432\text{p}$$

$$180\text{p} \times 432\text{p}$$

3. How many points are in 18 inches?

$$\frac{18\text{in}}{1} \cdot \frac{72\text{pts}}{1\text{in}} = 1296\text{pts}$$

4. How many picas are in 25 points?

$$\frac{25\text{pts}}{1} \cdot \frac{1\text{p}}{12\text{pts}} = 2.08\text{p}$$

5. How many points are in 8 pica type?

$$\frac{8\text{p}}{1} \cdot \frac{12\text{pts}}{1\text{p}} = 96\text{pts}$$

6. How many picas are in 3.5 feet?

$$\frac{3.5\text{ft}}{1} \cdot \frac{12\text{in}}{1\text{ft}} \cdot \frac{6\text{p}}{1\text{in}} = 252\text{p}$$

7. How many yards are in 15 feet 6 inches?

$$\frac{15.5\text{ft}}{1} \cdot \frac{1\text{yd}}{3\text{ft}} \approx 5.2\text{yd}$$

or 5 yd  $\frac{1}{2}$  ft 6 in

8. How many points are in  $6\frac{3}{4}$  inches?

$$\frac{6.75\text{in}}{1} \cdot \frac{72\text{pts}}{1\text{in}} = 486\text{pts}$$

9. How many picas are in  $4\frac{1}{2}$  feet?

$$\frac{4.5\text{ft}}{1} \cdot \frac{12\text{in}}{1\text{ft}} \cdot \frac{6\text{p}}{1\text{in}} = 324\text{p}$$

10. How many points are in 3.5 yards?

$$\frac{3.5\text{yd}}{1} \cdot \frac{36\text{in}}{1\text{yd}} \cdot \frac{72\text{pts}}{1\text{in}} = 9072\text{pts}$$

11. How many feet are in 2.5 miles?

$$\frac{2.5\text{mi}}{1} \cdot \frac{5280\text{ft}}{1\text{mi}} = 13200\text{ft}$$

12. How many miles are in 18,480 feet?

$$\frac{18480\text{ft}}{1} \cdot \frac{1\text{mi}}{5280\text{ft}} = 3.5\text{mi}$$

13. How many inches are in 14 feet?

$$\frac{14\text{ft}}{1} \cdot \frac{12\text{in}}{1\text{ft}} = 168\text{in}$$

14. How many inches are in 1 mile?

$$\frac{1\text{mi}}{1} \cdot \frac{5280\text{ft}}{1\text{mi}} \cdot \frac{12\text{in}}{1\text{ft}} = 63,360\text{in}$$

15. How many inches are in 14 yards?

$$\frac{14\text{yd}}{1} \cdot \frac{36\text{in}}{1\text{yd}} = 504\text{in}$$