

# Proportions - 2

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class : \_\_\_\_\_

Helpful Example :

$$\frac{w+6}{8} = \frac{3w-9}{6} \implies 6(w+6) = 8(3w-9) \implies 6w+36 = 24w-72$$

$$\implies 24w-6w = 72+36 \implies 18w = 108 \implies w = 6$$

Find the answers for the following Proportions.

1.  $\frac{42}{30} = \frac{2k}{k+3} \implies k = 7$

2.  $\frac{12}{24} = \frac{b-4}{b+4} \implies b = 12$

3.  $\frac{2.7+d}{3.9} = \frac{1.3+d}{3} \implies d = 3.367$

4.  $\frac{n+3}{6} = \frac{7}{2} \implies n = 18$

5.  $\frac{y+1}{8} = \frac{5}{20} \implies y = 1$

6.  $\frac{45}{35} = \frac{9}{7a-7} \implies a = 2$

7.  $\frac{10}{5} = \frac{r+20}{50} \implies r = 80$

8.  $\frac{c+3}{3} = \frac{10+2}{6} \implies c = 3$

9.  $\frac{8}{b+10} = \frac{4}{2b-7} \implies b = 8$

10.  $\frac{9-t}{8} = \frac{9}{12} \implies t = 15$

11.  $\frac{30.14}{p} = \frac{11.6}{6.6} \implies p = 17.15$

12.  $\frac{a-21}{7} = \frac{a+3}{8} \implies a = 189$

13.  $\frac{2}{8} = \frac{m-26}{m+10} \implies m = 38$

14.  $\frac{13.4r}{164.15} = \frac{2}{5} \implies r = 4.9$

15.  $\frac{3p-6}{2} = \frac{11}{48} \implies p = 2.16$

16.  $\frac{s+9}{22} = \frac{5s-2}{16} \implies s = 2$

17.  $\frac{4.6}{1.5} = \frac{20}{y} \implies y = 6.52$

18.  $\frac{z-12}{68} = \frac{1}{17} \implies z = 16$