

# Proportions - 2

Student's Name : \_\_\_\_\_

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

Helpful Example :

$$\begin{aligned}\frac{w+6}{8} &= \frac{3w-9}{6} \implies 6(w+6) = 8(3w-9) \implies 6w+36 = 24w-72 \\ &\implies 24w-6w = 72+36 \implies 18w = 108 \implies w = 6\end{aligned}$$

Find the answers for the following Proportions.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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