Maths

Miss Davies



1. Solve the following equations.

a)
$$\frac{x+4}{5} = 7$$

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 b) $\frac{y-7}{3} = 12$

c)
$$\frac{9r+7}{5}$$
 = 12 d) $\frac{3k-9}{7}$ = 15

2. Solve the following equations.

a)
$$\frac{u+5}{6} = u$$

a)
$$\frac{u+5}{6} = u$$
 b) $\frac{t-7}{6} = t+4$

c)
$$\frac{6W-9}{3} = 3W-7$$

c)
$$\frac{6w-9}{3} = 3w-7$$
 d) $\frac{7p+10}{6} = 4(2p-3)$

3. Solve the following equations.

a)
$$\frac{e+15}{e} = 6$$

a)
$$\frac{e+15}{e} = 6$$
 b) $\frac{3q-7}{5q} = 8$

c)
$$\frac{9r-7}{7r} = -8$$

c)
$$\frac{9r-7}{7r} = -8$$
 d) $\frac{3t+6}{8t-5} = -12$



4. Solve the following equations.

a)
$$\frac{5}{d+4} = \frac{7}{d-3}$$

a)
$$\frac{5}{d+4} = \frac{7}{d-3}$$
 b) $\frac{9}{3p+7} = \frac{5}{p-3}$

c)
$$\frac{9}{4y-6} = \frac{3}{5y+3}$$
 d) $\frac{15}{5r-7} = \frac{12}{7r+4}$

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$$\frac{15}{5r-7} = \frac{12}{7r+4}$$

5. Solve the following equations

a)
$$\frac{h-3}{4} = \frac{h+6}{7}$$

a)
$$\frac{h-3}{4} = \frac{h+6}{7}$$
 b) $\frac{t+5}{7} = \frac{2t-4}{5}$

c)
$$\frac{3u-5}{8} = \frac{5u}{5}$$

c)
$$\frac{3u-5}{8} = \frac{5u}{5}$$
 d) $\frac{7e}{12} = \frac{8e-6}{9}$

6. Solve the following equations

a)
$$\frac{h+3}{h} = \frac{h}{h+7}$$

a)
$$\frac{h+3}{h} = \frac{h}{h+7}$$
 b) $\frac{p+6}{p-3} = \frac{p+7}{p-4}$

c)
$$\frac{r+5}{3r} = \frac{r+4}{3r-2}$$

c)
$$\frac{r+5}{3r} = \frac{r+4}{3r-2}$$
 d) $\frac{8w-4}{4w+5} = \frac{6w-8}{3w+3}$



Answers



1. Solve the following equations.

a)
$$\frac{x+4}{5} = 7$$

 $x = 31$

a)
$$\frac{x+4}{5} = 7$$
 b) $\frac{y-7}{3} = 12$ $y = 43$

c)
$$\frac{9r+7}{5}$$
 = 14

c)
$$\frac{9r+7}{5}$$
 = 14 d) $\frac{3k-9}{7}$ = 15

2. Solve the following equations.

a)
$$\frac{u+5}{6} = u$$
 b) $\frac{t-7}{6} = t+4$ $t = -\frac{31}{5} = -6.2$

c)
$$\frac{6W-9}{3} = 3W-7$$

W = 4

c)
$$\frac{6w-9}{3}$$
 = 3w-7 d) $\frac{7p+10}{6}$ = 4(2p-3)
w = 4 p = 2

3. Solve the following equations.

a)
$$\frac{e+15}{e} = 6$$

e = 3

a)
$$\frac{e+15}{e} = 6$$
 b) $\frac{3q-7}{5q} = 8$ e = 3 $q = \frac{7}{37}$

c)
$$\frac{9r-7}{7r} = -8$$
 d) $\frac{3t+6}{8t-5} = -12$

$$r = \frac{7}{65}$$

$$f = \frac{54}{99}$$



4. Solve the following equations.

a)
$$\frac{5}{d+4} = \frac{7}{d-3}$$

 $d = -\frac{43}{2}$

a)
$$\frac{5}{d+4} = \frac{7}{d-3}$$
 b) $\frac{9}{3p+7} = \frac{5}{p-3}$ d = $-\frac{43}{2}$ p = $-\frac{62}{6}$

c)
$$\frac{9}{4y-6} = \frac{3}{5y+3}$$

y = $-\frac{45}{77}$

c)
$$\frac{9}{4y-6} = \frac{3}{5y+3}$$
 d) $\frac{15}{5r-7} = \frac{12}{7r+4}$ $y = -\frac{45}{33}$ $r = -\frac{144}{45}$

5. Solve the following equations

a)
$$\frac{h-3}{4} = \frac{h+6}{7}$$

h = 15

a)
$$\frac{h-3}{4} = \frac{h+6}{7}$$
 b) $\frac{t+5}{7} = \frac{2t-4}{5}$ h = 15 $t = \frac{53}{9}$

c)
$$\frac{3u-5}{8} = \frac{5u}{5}$$

c)
$$\frac{3u-5}{8} = \frac{5u}{5}$$
 d) $\frac{7e}{12} = \frac{8e-6}{9}$ e = $\frac{72}{33}$

6. Solve the following equations

a)
$$\frac{h+3}{h} = \frac{h}{h+7}$$
 b) $\frac{p+6}{p-3} = \frac{p+7}{p-4}$

c)
$$\frac{r+5}{3r} = \frac{r+4}{3r-2}$$

$$r = 10$$

$$(p) = \frac{p+6}{p-3} = \frac{p+7}{p-4}$$

$$p = -1.5$$

c)
$$\frac{r+5}{3r} = \frac{r+4}{3r-2}$$
 d) $\frac{8w-4}{4w+5} = \frac{6w-8}{3w+3}$

$$W = -2$$

