HW: PRACTICE **FRACTION** EQUATIONS

NAME: Key

1. $\left(\frac{4}{5}w+\frac{3}{5}=2w\right)5$

$4w+3=10w$
$-4w \quad -4w$
$\frac{3}{6}=\frac{6w}{6}$

$w=\frac{1}{2}$

2. $\left(-\frac{1}{12}m+\frac{1}{3}=\frac{1}{4}m\right)12$

$-1m+4=3m$
$+1m \quad +1m$
$\frac{4}{4}=\frac{4m}{4}$

$m=1$

3. $\left(\frac{4}{5}g+\frac{5}{8}g=7\right)40$

$32g+25g=280$
$\frac{7g}{7}=\frac{280}{7}$
$g=40$

4. $\left(\frac{5}{8}+\frac{7}{16}q=\frac{3}{4}+\frac{1}{4}q\right)16$

$10+7q=12+4q$
$-4q \quad -4q$
$10+3q=12$
$-10 \quad -10$
$\frac{3q}{3}=\frac{2}{3}$

$q=2/3$

5. $\left(\frac{2}{7}x+\frac{1}{10}=1-x\right)70$

$20x+7=70-70x$
$+70x \quad +70x$
$90x+7=70$
$-7 \quad -7$
$\frac{90x}{90}=\frac{63}{90}$

$x=\frac{63}{90}=\frac{7}{10}$ reduce!

6. $\left(-\frac{1}{8}w+\frac{2}{5}=\frac{1}{8}w+\frac{3}{5}\right)40$

$-5w+-16=5w+24$
$+5w \quad +5w$
$-16=10w+24$
$-24 \quad -24$
$\frac{-40}{10}=\frac{10w}{10}$

$w=-4$

7. $\left(\frac{1}{4}a+\frac{4}{9}=\frac{7}{9}+\frac{5}{6}a\right)36$

$9a+16=28+30a$
$+30a \quad +30a$
$39a+16=28$
$-16 \quad -16$
$\frac{39a}{39}=\frac{44}{39}$

$a=\frac{44}{39}$ or $1\frac{5}{39}$

8. $\left(\frac{5}{9}+\frac{5}{12}d=\frac{11}{12}+\frac{7}{9}d\right)36$

$20+15d=33+28d$
$-15d \quad -15d$
$20=33+13d$
$-33 \quad -33$
$\frac{-13}{13}=\frac{13d}{13}$

$d=-1$

9. $\frac{6-2b}{4}=5\cdot4$

$6-2b=20$
$-6 \quad -6$
$\frac{-2b}{-2}=\frac{14}{-2}$

$b=-7$

10. $\frac{4-3y}{4}=-17\cdot4$

$4-3y=-68$
$-4 \quad -4$
$\frac{-3y}{-3}=\frac{-72}{-3}$

$y=24$