

P150

1-35 all

#1  $\frac{5}{3}$

#2

$3(4y-7)=6$

$12y-21=6$  Dist. Prop  
 $+21 +21$

$\frac{12y}{12} = \frac{27}{12}$  APE

$y = \frac{9}{4}$  DPE

#3  $p+2p-3=6$

$3p-3=6$   
 $+3 +3$

$\frac{3p}{3} = \frac{9}{3}$

$p=3$

#4

$12v+14+10v=80$

$22v+14=80$   
 $-14 -14$

$\frac{22v}{22} = \frac{66}{22}$

$v=3$

#5

$11w-9-7w=15$

$4w-9=15$   
 $+9 +9$

$4w=24$

$w=6$

#6

$5a+3-3a=-7$

$2a+3=-7$   
 $-3 -3$

$\frac{2a}{2} = \frac{-10}{2}$

$a=-5$

#7

$6c-8-2c=-16$

$4c-8=-16$   
 $+8 +8$

$\frac{4c}{4} = \frac{-8}{4}$

$c=-2$

#12

$3+4(z+5)=31$

$3+4z+20=31$

$23+4z=31$   
 $-23 -23$

$4z=8$

$z=2$

#17

$-3=12y-5(2y-7)$

$-3=12y-10y+35$

$-3=2y+35$   
 $-35 -35$

$-38=2y$

$y=-19$

#8

$9=7z-13z-21$

$9=-6z-21$   
 $+21 +21$

$30=-6z$   
 $-6 -6$

$-5=z$

$z=-5$

#13

$14+2(g-3)=40$

$14+8g-6=40$

$8+8g=40$   
 $-8 -8$

$8g=32$

$g=4$

#18 C

#19

$\frac{1}{3}(d+3)=5$

$\frac{3}{1} \cdot \frac{1}{3}(d+3) = \frac{5}{1} \cdot \frac{3}{1}$

$d+3=15$

$d=12$

#9

$-2=3y-18-5y$

$-2=-2y-18$   
 $+18 +18$

$\frac{16}{-2} = \frac{-2y}{-2}$

$-8=y$

$y=-8$

#14

$5m+2(m+1)=23$

$5m+2m+2=23$

$7m+2=23$   
 $-2 -2$

$\frac{7m}{7} = \frac{21}{7}$

$m=3$

#10

$23=-4m+2+m$

$23=-3m+2$   
 $-2 -2$

$\frac{21}{-3} = \frac{-3m}{-3}$

$-7=m$

$m=-7$

#15

$5h+2(11-h)=-5$

$5h+22-2h=-5$

$3h+22=-5$   
 $-22 -22$

$\frac{3h}{3} = \frac{-27}{3}$

$h=-9$

#11

$35=-5+2x-7x$

$35=-5-5x$   
 $+5 +5$

$\frac{40}{-5} = \frac{-5x}{-5}$   
 $x=-8$

#16

$27=3c-3(6c)$

$27=3c-18+6c$   
 $27=9c-18$   
 $+18 +18$

$45=9c$

$c=5$