WS 5-3 (Last Page)

#7 $6y = 4(y+8)$

$6y = 4y + 32$

$-4y \quad -4y$

$\frac{2y}{2} = \frac{32}{2}$

$y = 16$

$y = \_\_$

#8

$2(m+3)+9=-11$

$2m+6+9=-11$

$2m+15=-11$

$-15 \quad -15$

$2m=-26$

$\frac{2m}{2}=\frac{-26}{2}$

$m=-13$

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#7 (Wording)

$-2(n+9)=10$

$-2n-18=10$

$+18 \quad +18$

$-2n=28$

$\frac{-2n}{-2}=\frac{28}{-2}$

$n=-14$

(1) Expand the brackets by multiplying -2 into the brackets.

(2) Isolate $-2n$ by adding 18 to both sides.

(3) Isolate n by dividing both sides with -2.

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WS 5-4

#8 (V) $x - 3 = 5 - x$ (N)

$+3 \quad +3$

$x = 8 - x$

$+x \quad +x$

$2x = 8$

$\frac{2x}{2} = \frac{8}{2}$

$x = 4$

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#11

$4(3g-5) = -2(46+3g)$

V N

$12g - 20 = -92 - 6g$

$+20 \quad +20$

$12g = -72 - 6g$

$+6g \quad +6g$

$18g = -72$

$\frac{18g}{18} = \frac{-72}{18}$

$g = -4$

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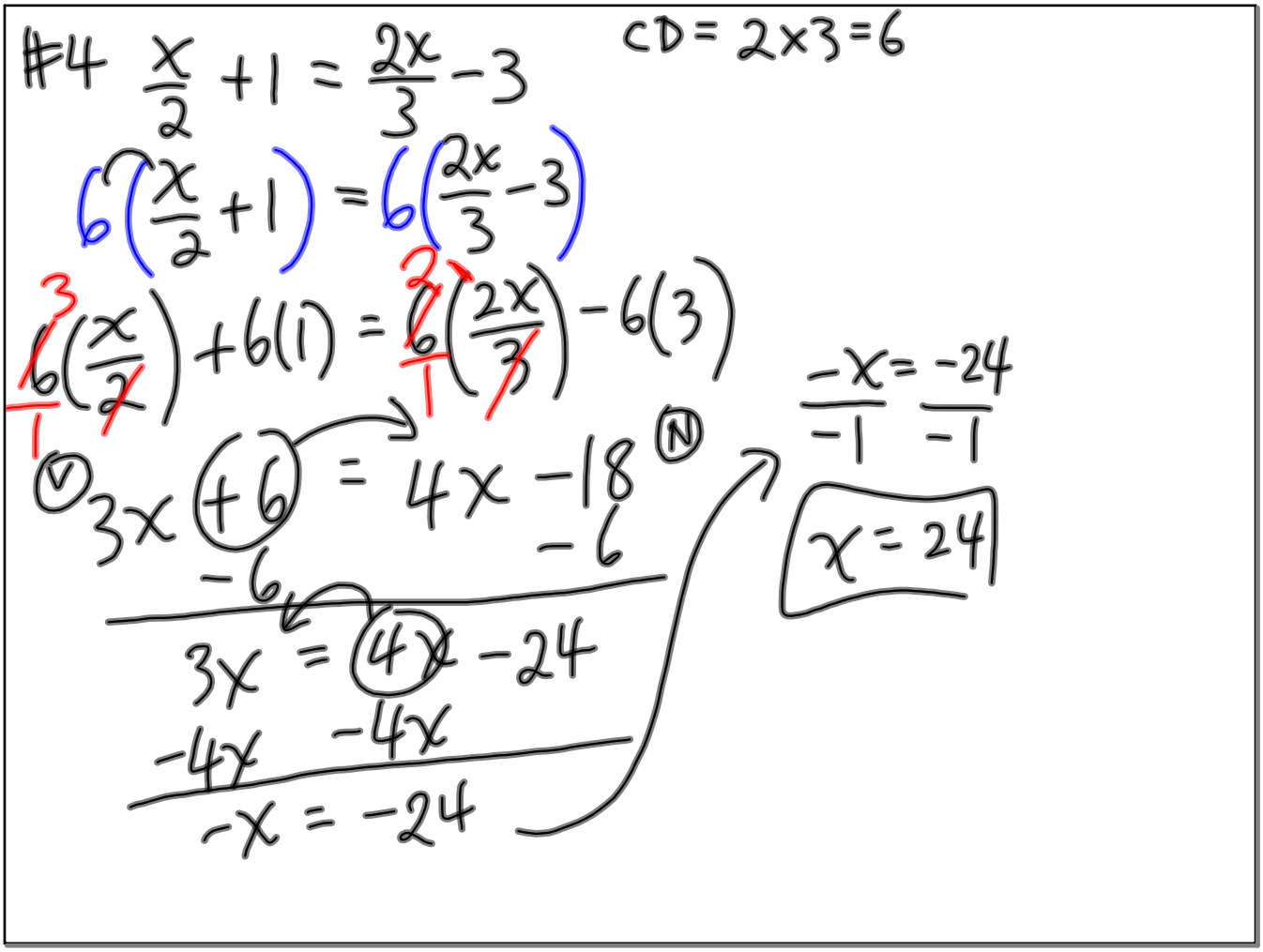
#1 $\frac{a}{5} - \frac{a}{6} = 1$ CD = 5x6 = 30

$30\left(\frac{a}{5} - \frac{a}{6}\right) = 30(1)$

$\frac{6}{30}\left(\frac{a}{5}\right) - \frac{5}{30}\left(\frac{a}{6}\right) = 30(1)$

$6a - 5a = 30$

$a = 30$


#4 $\frac{x}{2}+1=\frac{2x}{3}-3$
CD = 2x3=6
$6\left(\frac{x}{2}+1\right)=6\left(\frac{2x}{3}-3\right)$
$6\left(\frac{x}{2}\right)+6(1)=6\left(\frac{2x}{3}\right)-6(3)$
$3x+6=4x-18$
$-6 \quad -6$
$3x=4x-24$
$-4x \quad -4x$
$-x=-24$
$\frac{-x}{-1}=\frac{-24}{-1}$
$x=24$

#5 $\frac{x-2}{4} - \frac{x-7}{3} = 1$ CD $= 4 \times 3 = 12$

$12\left(\frac{x-2}{4} - \frac{x-7}{3}\right) = 12(1)$

$3\cancel{12}\left(\frac{x-2}{\cancel{4}}\right) - \cancel{12}^{4}\left(\frac{x-7}{\cancel{3}}\right) = 12(1)$

$3(x-2) - 4(x-7) = 12$

$3x - 6 - 4x + 28 = 12$

$3x - 4x - 6 + 28 = 12$

$-x + 22 = 12$

$-22 \quad -22$

$\frac{-x}{-1} = \frac{-10}{-1}$

$x = 10$

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#5(c) $\frac{3y-1}{5} - 1 = \frac{2y-4}{3}$ CD ↓ 5x3 = 15

$15\left(\frac{3y-1}{5} - 1\right) = 15\left(\frac{2y-4}{3}\right)$

$\frac{3}{15}\left(\frac{3y-1}{5}\right) - 15(1) = \frac{5}{15}\left(\frac{2y-4}{3}\right)$

$3(3y-1) - 15(1) = 5(2y-4)$

$9y - 3 - 15 = 10y - 20$

(V) $9y - 18 = 10y - 20$ (N)

$+18 \quad +18$

$9y = 10y - 2$

$-10y \quad -10y$

$-y = -2$

$\frac{-y}{-1} = \frac{-2}{-1}$

$y = 2$

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