

Exam Review Unit 6

(5) $\frac{d+5}{2} = 8$

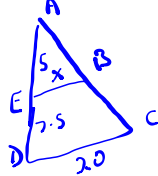
d

a) $\frac{x+5}{2} = 8$

→ a number plus 5, divided by two is 8

Unit 7

12.



$\frac{x}{20} = \frac{5}{12.5}$

$x = \frac{5(20)}{12.5}$
 $= 8$

(C)

Unit 6

(7) $4(3w-6) = 3-6w$
 $12w-24 = 3-6w$
 $12w = 27-6w$
 $\frac{18w}{18} = \frac{27}{18}$
 $w = \frac{3}{2}$

$12w-6 = -3w$
 $12w-6+6 = -3w+6$
 $12w = -3w+6$
 $12w+3w = -3w+3w+6$
 $15w = 6$
 $\frac{15w}{15} = \frac{6}{15}$
 $w = \frac{2}{5}$

(18) $\frac{3}{4}(5x-4) = \frac{1}{2}(4x+3)$

$3(5x-4) = 2(4x+3)$

$15x-12 = 8x+6$

$15x = 8x+18$

$\frac{7x}{7} = \frac{18}{7}$

$x = \frac{18}{7}$

Example

(12) $\frac{3}{4}(x-8) + \frac{1}{3}(5x-2) = \frac{12}{7}$

$9(x-8) + 4(5x-2) = 84$

$9x-72 + 20x-8 = 84$

$29x-80 = 84$

$29x = 84+80$

$\frac{29x}{29} = \frac{164}{29}$

$x = \frac{164}{29}$