

Exam Review Unit 6

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

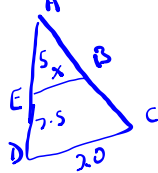
d

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

→ a number plus 5, divided by two is 8

Unit 7

12.



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

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

Ⓢ

Unit 6

$$(7) 4(3w-6) = 3-6w$$

$$12w-24 = 3-6w$$

$$12w = 27-6w$$

$$\frac{18w}{18} = \frac{27}{18}$$

$$w = \frac{3}{2}$$

$$\left. \begin{array}{l} 12w-6 = -3w \\ 12w-6+6 = -3w+6 \\ 12w = -3w+6 \\ 12w+3w = -3w+3w+6 \\ 15w = 6 \\ \frac{15w}{15} = \frac{6}{15} \\ w = \frac{2}{5} \end{array} \right\}$$

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

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

$$15x-12 = 8x+6$$

$$15x = 8x+18$$

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

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

Example

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

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

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

$$29x-80 = 84$$

$$29x = 84+80$$

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

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