

Persamaan Linear

Persamaan Linear Melibatkan satu Pemboleh Ubah

Standard Pembelajaran

- 6.1.3 Menyelesaikan persamaan linear dalam satu pemboleh ubah
- 6.1.4 Menyelesaikan masalah yang melibatkan persamaan linear dalam satu pemboleh ubah

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Persamaan Linear

Cari nilai pemboleh ubah berikut

$$1) \frac{3x+6}{20+x} = \frac{30}{15}$$

$$15(3x + 6) = 30(20 + x)$$

$$45x + 90 = 600 + 30x$$

$$45x - 30x = 600 - 90$$

$$15x = 510$$

$$x = 34$$

Arahan	Paparan Skrin Kalkulator
$\frac{3x+6}{20+x} = \frac{30}{15}$ $\frac{3x+6}{20+x} = \frac{30}{15}$	$\frac{3x+6}{20+x} = \frac{30}{15}$
$\frac{3x+6}{20+x} = \frac{30}{15}$ $x =$ $L-R =$	$\frac{3x+6}{20+x} = \frac{30}{15}$ $x =$ $L-R =$

$$2) 3(12 - 3m) = 5m + 30$$

$$36 - 9m = 5m + 30$$

$$-9m - 5m = 30 - 36$$

$$-14m = -6$$

$$m = \frac{3}{7}$$

Arahan	Paparan Skrin Kalkulator
$3(12 - 3m) = 5m + 30$ $3(12 - 3m) = 5m + 30$	$3(12 - 3m) = 5m + 30$
$3(12 - 3m) = 5m + 30$ $x =$ $L-R =$	$3(12 - 3m) = 5m + 30$ $x =$ $L-R =$
$\text{Ans} =$	Ans

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3) $\frac{32(x+4)}{3} = 3x + 10$

$$32(x + 4) = 3(3x + 10)$$

$$32x + 128 = 9x + 30$$

$$32x - 9x = 30 - 128$$

$$23x = 98$$

$$x = \frac{-98}{23}$$

$$x = -4\frac{6}{23}$$

Arahan	Paparan Skrin Kalkulator
$\frac{32(x+4)}{3} = 3x + 10$ $\frac{32(x+4)}{3} = 3x + 10$ $\frac{32(x+4)}{3} = 3x + 10$	$\frac{32(x+4)}{3} = 3x + 10$ $\frac{32(x+4)}{3} = 3x + 10$ $\frac{32(x+4)}{3} = 3x + 10$
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Latihan

Cari nilai pemboleh ubah bagi persamaan linear berikut

$$1) 5x - 7 = 3x + 9 \quad (\text{Ans: } 8)$$

$$2) \frac{2m-3}{7} = 3 \quad (\text{Ans: } 12)$$

$$3) 5(x - 3) + x = -3(1 - x) \quad (\text{Ans: } 4)$$

$$4) \frac{2x-3}{4} = \frac{x+1}{3} \quad (\text{Ans: } 6\frac{1}{2})$$

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