



Saat istirahat siang, Aldi, Alfa dan Reynando makan di kantin. Aldi memesan 3 porsi roti bakar, seporsi es jeruk dan seporsi nasi bakar dengan total harga Rp75.000. 🍷🍷

Alfa memesan 1 porsi roti bakar, 2 es jeruk dan seporsi nasi bakar dan membayar Rp55.000. Sementara itu, Reynando memesan 2 porsi roti bakar, seporsi es jeruk dan 2 porsi nasi bakar dengan total Rp80.000. Berapa harga tiap porsi ketiga makanan itu?

Jawaban

Diketahui

$x = 1$  porsi roti bakar

$y =$

$z =$

Aldi →  ..... persamaan (1)

Alfa →  ..... persamaan (2)

Reynando →  ..... persamaan (3)

Ditanyakan

Harga tiap porsi dari makanan tersebut?

Pilihan Jawaban

$$3x + y + z = 75000$$

$$x + 2y + z = 55000$$

$$2x + y + 2z = 80000$$

$$2x + 2y + z = 55000$$

$$x + y + z = 75000$$

$$2x + y + 2z = 55000$$

Penyelesaian

Eliminasi x pada persamaan (2) dan (1)

$$\begin{array}{rcl} \boxed{\phantom{00}} & + & \boxed{\phantom{00}} + \boxed{\phantom{00}} = 55000 \\ \boxed{\phantom{00}} & + & \boxed{\phantom{00}} + \boxed{\phantom{00}} = 80000 \\ \hline & & \boxed{\phantom{00}} = \boxed{\phantom{00}} \end{array}$$

..... persamaan (4)

Pilihan Jawaban

$$2x + y + 2z = 80000$$

$$x + 2y + z = 55000$$

$$3x + 6y + 3z = 165000$$

$$3x + y + z = 75000$$

$$3x + y + z = 75000$$

$$5y + 2z = 90000$$

$$5y - 2z = 90000$$

Eliminasi x pada persamaan (2) dan (3)

$$\begin{array}{rcl} \boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} = 55000 & \cdot \boxed{\phantom{00}} & \boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}} \\ \boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} = 80000 & \cdot \boxed{\phantom{00}} & \boxed{\phantom{00}} + \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}} \\ \hline & & \boxed{\phantom{00}} = \boxed{\phantom{00}} \\ & & y = \boxed{\phantom{00}} \\ & & \boxed{\phantom{00}} \\ & & y = \boxed{\phantom{00}} \end{array}$$



Substitusi  $y = 10000$  ke persamaan (4)

$$\begin{aligned} \square + \square &= \square \\ 5(\square) + \square &= \square \\ \square + \square &= \square \\ \square &= \square - \square \\ \square &= \square \\ z &= \square \\ \square \\ z &= \square \end{aligned}$$



Substitusi  $y = \square$  dan  $z = \square$  ke persamaan (2)

$$\begin{aligned} \square + \square + \square &= \square \\ \square + 2(\square) + \square &= \square \\ \square + \square + \square &= \square \\ x + \square &= \square \\ x &= \square - \square \\ x &= \square \end{aligned}$$



Jadi harga

1 porsi roti bakar = Rp.

1 gelas es jeruk = Rp.

1 porsi nasi bakar = Rp.

NAME: \_\_\_\_\_