

**Ch.4 Simple Equations**

Q.1 Use algebra to represent the following sentences with correct units.

(a) The volume of a can of drink is  $x$  ml. What is the volume of 2 cans of drink?

e.g.

(b) Johnny has  $\$x$ . Then his father gives him  $\$5$ . How much does Johnny have now?

(c) The age of Stephanie's dad is 4 times that of her. How old is Stephanie?

(d) There are  $x$  pieces of biscuits. After eating 5 pieces, how many biscuits remain?

(e) A pear costs  $\$p$ . An apple is more expensive than a pear by  $\$2$ . How much is an apple?

(f) A pack of 5kg of rice costs  $\$k$ . How much does each kg of rice cost?

(g) A watermelon weights  $b$ kg. Half of it is used to make juice. What is the weight of the remained watermelon?

(h) Alex bought a bottle of juice. The volume of it is 700 ml. After drinking some of it,  $z$  ml is left. What is the amount of juice that Alex drunk?

- (i) Wayne has 30 candies. He eats  $y$  candies every day. How many candies does he eat in a week? How many candies remain after a week?

e.g. Ans: Wayne eats \_\_\_\_\_ candies in a week , the number of candies remained is \_\_\_\_\_.

- (j) Raymond eats  $y$  candies every day. The daily number of candies that his sister eats is 2 times and then less 1 to that of Raymond eats. How many candies does his sister eat every single day?

Ans: \_\_\_\_\_.

- (k) The number of pineapple buns sold is  $x$ . The number of sausage rolls sold is more than that of pineapple buns by 25. Find the number of sausage rolls sold.

- (l) In a bakery, 50 bags of breads are sold in the morning. While in the afternoon, the number of bags of breads sold is less than that in the morning by  $y$ . How many bags of breads are sold in the afternoon?

- (m) Bread costs \$3.5 each. There are  $m$  breads. How much are they?

- (n) At the beginning, there are 42 ham buns. After selling 21 of them,  $n$  ham buns are made. What is the total number of ham buns now?

- (o) May has  $m$  apples, which is 3 times the number of oranges that she had. She plans to give half a dozen of the oranges to her grandfather. How many oranges does May have?

Q.2 Solve the following equations.

e.g.

(a)  $2x + 4 = 10$

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(c)  $3p - 5 = 13$

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(e)  $6y + 5 = 35$

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(g)  $9 = 2x - 5$

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e.g.

(i)  $\frac{x}{2} = 7$

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(k)  $\frac{x}{3} - 4 = 6$

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(b)  $x + 7 = 12$

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(d)  $2x - 12 = 2$

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(f)  $39 - x = 21$

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(h)  $31 = 5 - 2x$

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(j)  $\frac{3x}{2} = 3$

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(l)  $\frac{m}{4} - 3 = 7$

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