

CHAPTER 1 (CHECK POINT 1)

① Write the following numbers in standard form.

(a) $3 \times 10^4 = 3000$

(b) $3.27 \times 10^5 = 3270$

(c) $3 \div 10^2 = 0.03$

(d) $4.32 \div 10^4 = 0.000432$

② Write the following numbers in standard form

(a) $5720 = 5.72 \times 10^3$

(d) $7.4 = 0.74 \times 10^{-1}$

(b) $443000 = 4.43 \times 10^5$

(e) $6000000 = 6 \times 10^6$

(c) $0.09 = 9 \times 10^{-2}$

(f) $0.000621 = 6.21 \times 10^{-4}$

③ Percent increase and decrease problem.

(a) A sport store near Matang Jaya is having a 20% off sale on all shoes. What will the sale price be for the shoes with regularly sell for RM248?

$$\frac{20}{100} \times \text{RM}248 = \text{RM}49.60$$

$$\text{RM}248 - \text{RM}49.60 = \text{RM}198.40$$

(b) Shoes at a sporty near Cityone are on sale for RM476. If the original price was RM560, what discount rate does this represent?

$$\text{RM}560 - \text{RM}476 = \text{RM}84$$

$$\frac{84}{560} \times 100\% = 15\%$$

(c) The manager's salary at Green Dot increased from RM48000 to RM51360. What is the rate of increase?

$$\text{RM}51360 - \text{RM}48000 = 3360$$

$$= \frac{3360}{48000} \times 100\% = 7\%$$

(d) Yahoo in USA currently has a staff of 6200 employees. Next month, Yahoo will decrease its staff by 8%. How many people will be employed by Yahoo next month.

CHAPTER 1 (CHECK POINT 3)

① Write the following numbers in standard form.

a) $3 \times 10^4 = 3000$

b) $3.27 \times 10^3 = 3270$

c) $3 \div 10^2 = 0.03$

d) $4.32 \div 10^4 = 0.000432$

② Write the following numbers in standard form.

a) $5720 = 5.72 \times 10^3$

b) $443000 = 4.43 \times 10^5$

c) $0.09 = 9 \times 10^{-2}$

d) $74 = 74 \times 10^{-1}$

e) $6000000 = 6 \times 10^6$

f) $0.000621 = 6.21 \times 10^{-4}$

③ Percent increase and decrease problem.

a) A sport store near Matang Jaya is having a 20% off sale on all shoes. What will the sale price be for the shoes with regularly sell for RM248?

$$= \frac{20}{100} \times \text{RM } 248 = \text{RM } 49.60$$

$$\text{RM } 248 - \text{RM } 49.60 = \text{RM } 198.40$$

b) Shoes at a sporty near Cityone are on sale for RM476. If the original price was RM560, what discount rate does this represent?

$$= \text{RM } 560 - \text{RM } 476 = \text{RM } 84$$

$$= \frac{84}{560} \times 100\% = 15\%$$

c) The manager's salary at Green Dot increased from RM48000 to RM51360. What is the rate of increase?

$$\text{RM } 51360 - \text{RM } 48000 = \text{RM } 3360$$

$$= \frac{\text{RM } 3360}{48000} \times 100\% = 7\%$$

d) Yahoo in USA currently has a staff of 6200 employees. Next month, yahoo will decrease its staff by 8%. How many people will be employed by Yahoo next month?