

## 交通事務委員會

### 在2017年4月28日特別會議上通過有關 "提前檢討港鐵票價調整機制的結果" 的議案

本人動議修正 2017/18 年港鐵票價[調整]方程[式]的算術錯誤，由 "整體票價調整幅度 = (+2.25% - 0.6%) x 9 折" 更正為 "整體票價調整幅度 = (1 + 2.25% - 0.6%) x 9 折"，因為折扣後售價 = 原價 x 折扣率，所以折扣後的調整 = 原價 x (1 - 折扣率)。以 \$10 票價計，經過 +2.25% - 0.6% 的調整後，

$$\text{票價} = \$10 \times (1 + 2.25\% - 0.6\%) = \$10.165$$

$$\text{九折後票價} = \$10.165 \times 0.9 = \$9.1485$$

$$\begin{aligned} \text{整體票價調整幅度} &= \frac{-\$10 + \$9.1485}{\$10} \times 100\% \\ &= -8.515\% \end{aligned}$$

動議人：姚松炎議員

(Translation)

### Panel on Transport

#### Motion on

#### "Outcome of the early review of the MTR Fare Adjustment Mechanism" passed at the special meeting on 28 April 2017

I move to correct the arithmetic error in the MTR Fare Adjustment Mechanism formula for 2017/18 by amending "the overall fare adjustment rate = (+2.25% - 0.6%) x 0.9" as "the overall fare adjustment rate = (1 + 2.25% - 0.6%) x 0.9", given that the fare after discount = "the original fare x (1 - the discount rate)", and the discount = "the original fare x the discount rate". For illustration, if the fare is \$10, the fare after applying the adjustment rate of "+2.25% - 0.6%" =

$$"\$10 \times (1 + 2.25\% - 0.6\%) = \$10.165",$$

the fare after further applying the 10% discount = "\$10.165 x 0.9 = \$9.1485", and

$$\begin{aligned} \text{the overall fare adjustment rate} &= \frac{-\$10 + \$9.1485}{\$10} \times 100\% \\ &= -8.515\% \end{aligned}$$

Moved by : Dr Hon YIU Chung-yim