Video Game Company

The percentage of \$195 750 that each partner contributed:

Jae Eun
$$\frac{\$87750}{\$195750}$$
 x 100 = 44.8%

Ted
$$\frac{$108\,000}{$195\,750}$$
 x 100 = 55.2%

Therefore, Jae Eun should receive 45% (or 44.8%) of the sale price, while Ted should receive 55% (or 55.2%).

Jae Eun: $$750\ 000 \times 0.45 = $337\ 500 \text{ (or } $336\ 000 \text{ using decimal }\%\text{)}$ Ted: $$750\ 000 \times 0.55 = $412\ 500 \text{ (or } $414\ 000 \text{ using decimal }\%\text{)}$

Solution 2

This solution is based on splitting the profit of the sale after deducting the partners' contributions.

The same initial calculations as in Solution 1:

Jae Eun: \$50 000 + \$8 500 = \$58 500

\$58 500 \times 1.5 = \$87 750 (Jae Eun's initial contribution weighted at 1.5 \times)

Ted: $$22\,000 \times 1.5 = $33\,000 \text{ (Ted's initial contribution weighted at } 1.5\times)$

Ted continued to contribute \$1250/month for 5 years.

 $1250 \times 5 \text{ years} \times 12 \text{ months/year} = 75 000$

In total, Ted invested: \$33 000 + \$75 000 = \$108 000

Total Partner contributions: \$87 750 + \$108 000 = \$195 750

Sale price of Company less Total Partner contributions: \$750 000 - \$195 750 = \$554 250

Profit split equally: $$554\ 250 \div 2 = $277\ 125$ for each partner

Therefore:

Jae Eun: \$87 750 + \$277 125 = \$364 875 Ted: \$108 000 + \$277 125 = \$385 125