



## Worksheet 5: Percentage changes answers

### Example 1:

The price of an airplane ticket increased from \$75 to \$100.

Calculation:

$$\frac{(\$100 - \$75)}{\$75} \times 100 = +33\%$$

The price of a bus ticket increased from \$3 to \$6.

Calculation:

$$\frac{(\$6 - \$3)}{\$3} \times 100 = +100\%$$

Which product experiences a greater percentage change in price? *Bus tickets*

### Example 2:

The tuition fee for a university course increased from \$10 000 to \$12 000.

Calculation:

$$\frac{(\$12000 - \$10000)}{\$10000} \times 100 = +20\%$$

The rent for an apartment increased from \$400 to \$500.

Calculation:

$$\frac{(\$500 - \$400)}{\$400} \times 100 = +25\%$$

Which product experiences a greater percentage change in price? *The apartment rent*

### Example 3:

The price of an exotic holiday decreased from \$750 to \$500.

Calculation:

$$\frac{(\$500 - \$750)}{\$750} \times 100 = -33\%$$

The price of a car decreased from \$4000 to \$3500.

Calculation:

$$\frac{(\$3500 - \$4000)}{\$4000} \times 100 = -12.5\%$$

Which product experiences a greater percentage change in price? *The exotic holiday*



### Example 4:

The price of petrol increased from \$1.50 to \$1.75 per litre.

Calculation:

$$\frac{(\$1.75 - \$1.50)}{\$1.50} \times 100 = +17\%$$

The price of a taxi service increased from \$2.50 to \$2.75 per kilometre.

Calculation:

$$\frac{(\$2.75 - \$2.50)}{\$2.50} \times 100 = +10\%$$

Which product experiences a greater percentage change in price? *Petrol*