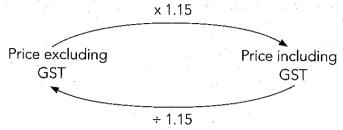


- GST stands for Goods and Services Tax.
- It is added to everything you purchase and it goes to the Government to fund the running of the country.
- The standard current GST rate on all products in New Zealand is 15%.
- Don't forget to add units and round when necessary.

Α	dding GST				
	Example: The GST-exclusive price is	\$95. C	Calculate the GST-incl	usive price.	Use the <b>%</b> :button on your calculator
,	GST-inclusive amount = \$9 = \$10	5 x <b>1.</b> 09.25		itage to	ve amount = \$95 + 15% = \$109.25
Ad	d GST to these prices.				
1	\$86	2	\$15.50	3	\$89.95
4	\$102.32	5	\$4056.99	6	\$56.75
7	\$0.23	8	\$65.20	9	\$530.00
10	The pre-GST price of a car is \$3500.				
	a Calculate its GST-inclusive price.				
	b How much is the GST on the car?				
The pre-GST price of an ice-cream is \$3.47.  a Calculate its GST-inclusive price.					
	<b>b</b> How much is the GST on the ice-cream?				

## Calculating the pre-GST price and GST

You may be given the GST-inclusive price and asked to calculate a pre-GST price or how much GST is being paid on an item.



**Example:** A painting costs \$840 including GST. How much GST was paid?

Calculate GST-exclusive prices for the following.

**1** \$98

**2** \$27.45

**3** \$109.99

**4** \$256.78

**5** \$0.99

**6** \$980.65

**7** \$1.59

**8** \$86.70

- **9** \$890.00
- 10 Derek bought a car for \$4999. How much GST was included in this price?
- 11 How much GST did Amanda pay on her ice cream that cost her \$3.45?
- A car yard had a sale. It advertised that it would pay the GST on all cars sold. The salesman subtracted 15% from the full GST-inclusive price of \$5999 in order to calculate the sale price. Explain why his boss was angry, and calculate what the sale price should have been.

## Mixing it up

Answer the following questions.

- 1 Two ninths of the class of 27 caught the flu. How many students had the flu?
- 2 Calculate the GST-exclusive price of an item that is advertised at \$1099.
- **3** An investment of \$5750 earns \$235.75 interest in a year. Calculate the annual interest rate.
- **4** An investment of \$2500 earns 3.5% interest per year. How much will the investment be worth after one year?
- 5 Nic ran 2.6 km on Monday, 3.2 km on Wednesday, 2.9 km on Friday and 4.8 km on Sunday. Calculate the total distance that he ran over the week.
- 6 A dressing recipe contains four tablespoons of oil, one tablespoon of vinegar and one tablespoon of lemon juice. What percentage of the dressing is lemon juice?
- 7 A family of three and a family of four go out to dinner. The total bill is \$287.35. Calculate how much the family of three should pay.
- 8 A bike shop has a sale in which 15% is taken off all prices. Calculate the sale price of a bike that is normally \$399.
- **9** The dry ingredients for a muesli bar recipe are  $2\frac{1}{2}$  cups of rolled oats,  $\frac{3}{4}$  cup of raisins,  $1\frac{3}{4}$  cups of nuts and  $\frac{1}{2}$  cup of bran. How many cups of dry ingredients is this?
- Jon got five sixths of the questions in his science test correct, he got 82% in his mathematics test, and 19 questions correct out of 23 in history. In which subject did he score the highest mark?
- Pita ate a sixth of the pizza. Pania ate three tenths of what remained. Then Paula ate a quarter of the entire pizza. What fraction was left for Penny?
- An old model of a tablet is advertised at \$399, rather than the normal price of \$469. By what percentage was the tablet reduced?
- 13 After a 5% increase in the cost of a litre 14 of milk, the price is \$2.73. What was the price before the increase?
  - 14 The price of wine gums increased from 5c each to 6c. Calculate the percentage increase in price.
- Uncle Scrooge revised his will yet again. The new one states that 35% goes to the cat. The remainder is to be shared equally between his five nieces, except for the youngest (his favourite), who gets an extra 5% of the estate. If his estate is worth \$38 000, calculate how much the cat inherits, and how much each niece inherits.