

Mixing it up

Answer the following questions.

- 1 Two ninths of the class of 27 caught the flu. How many students had the flu?

- 3 An investment of \$5750 earns \$235.75 interest in a year. Calculate the annual interest rate.

- 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.

- 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.

- 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?

- 1 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?

- After a 5% increase in the cost of a litre of milk, the price is \$2.73. What was the price before the increase?

- 2 Calculate the GST-exclusive price of an item that is advertised at \$1099.

- 4 An investment of \$2500 earns 3.5% interest per year. How much will the investment be worth after one year?

- 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?

- 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.

- 10 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?

- 12 An old model of a tablet is advertised at \$399, rather than the normal price of \$469. By what percentage was the tablet reduced?

- 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.