	The unitary method involves finding the value of 'one unit' and then using this information to answer the question.
	When dealing with percentages, finding 'one unit' corresponds to finding one per cent (1%).
•	Once the value of 1% of an amount is known, it can be multiplied to find the value of any desired percentage.
QUESTION 1	
a	If 50% of a number is 32, what is the number?
b	Find the total cost if 60% of it is \$90.
c	If 18% of a number is 9, what is the number?
d	If 150% of a number is 60, what is the number?
QUESTION 2 Use the unitary method to solve the following.	
a	20% of a number is 32, what is the number?
b	10% of a number is 63, what is the number?

QUESTION **3** Find 100% of the number if a part of it is given.

a 40% is 80; 100% = _____ **b** 20% is 92; 100% = ____

15% of a number is 360, find the number.

48% of a number is 336, find the number.

- **c** 25% is 120; 100% = _____ **d** 15% is 60; 100% =
- **e** 50% is 70; 100% = _____ **f** 75% is 450; 100% = ____
- **g** 5% is 83; 100% = _____ **h** 45% is 119; 100% = ____
- i 2% is 94; 100% = _____ j 8% is 34; 100% = _____
- **k** 16% is 46; 100% = ______ **l** $12\frac{1}{2}$ % is 230; 100% = _____

QUESTION 4

- **a** If $33\frac{1}{3}$ % of a number is 9, find the number.
- **b** John's income increased by 3%. If his income rose by \$645, find his previous income.
- c Alku receives a 15% increase in her weekly wage.

 If the increase is \$75, find her new weekly wage.
- d In the first year, the price of a block of land increased by 20%.

 If this increase amounted to \$28000, what is the price now?
- e Hari spends 40% of his weekly income on rent.

 If his rent is \$220, find his income.

f	When an amount is increased by 20% it becomes \$65. What was the original amount?
g	The population of a small town decreases by 8% every year. If this year's population is 4600, what was the population last year?
1	The price of a stereo is \$1200. The discount is 30%. What is the discount?
2	Out of 630 students, 80% swim. How many swim?
3	Out of 120 students, 65% went to the camp. How many went to the camp?
4	Clare obtained 90 out of 120 marks in a mathematics test. What percentage was this?
5	Decrease \$100 by 10% and then increase this result by 10%.
6	If 35% of a number is 70, find the number.
7	A blanket that cost a retailer \$56.50 sells for \$110. What percentage profit is made?
8	A salesman sold goods worth \$35000. Find the commission he gained on the sale if the first \$10000 sales earns 7% and the amount sold above \$10000 earns 9%.
9	Find the simple interest on \$2000 for 1 year at 9.5% per annum.
10	Find the simple interest on \$3560 for 3 years at $8\frac{1}{4}\%$ p.a
11	Find 55% of \$1640 and add it to 45% of \$150.
12	In an examination, 90% of a class of 30 students passed. How many students failed?
13	Michael bought a second-hand car for \$8000 and spent \$2300 repairing it. If he sold the car for \$15600, find:
	a his gain as a percentage of the total cost price (including cost of repairs).
	b his gain as a percentage of the selling price.
14	A tiler makes a mixture for a bathroom floor with 5 blue tiles and 4 grey tiles to each white tile. Express the composition of the floor as percentages. Also find the number of blue tiles used in a floor of 1690 tiles.