INTRODUCTION TO PERCENTAGES

MNU 307-a

I can solve problems by carrying out calculations with a wide range of (fractions, decimal fractions and) **percentages**, using my answers to make comparisons and informed choices for real-life situations.

Pupils should be able to:

- Find any percentage of a quantity using a calculator by finding 1% first.
- Mentally use simple equivalent fractions eg 75% = $\frac{3}{4}$ to find percentages of other numbers

PUPILS SHOULD COMPLETE THE FOLLOWING EXERCISE AND ASSESS THEIR PROGRESS BY TICKING ONE OF THE OPTIONS FOR EACH TOPIC IN THE TABLE BELOW

	DEVELOPING	CONSOLIDATING	SECURE
Find any percentage of a quantity using a calculator by finding 1% first. (QUESTION 1)			
Make a percentage (with calculator.) (QUESTIONS 2 - 3)			
Mentally find % (QUESTION 4)			
Solve problems Involving % (QUESTIONS 5 - 7)			

Mymaths lessons: library/number/percentages/percentages of amounts 1 & 2

SELF EVALUATION EXERCISE

DATE DUE

1. Find the following percentages with a calculator:-

a) 16% of 70	b) 23% of £172	c) 47% of 85	d) 92% of 2400
e) 64% of 54	f) 81% of 690	g) 4% of 105	h) 17.5% of 65

- 2. There are 30 pupils in Mr. Ross' 3rd year class. 27% of these pupils passed their recent exam with full marks. How many passed with full marks?
- 3. Sarah bought a top which costs £35. A week later it went on sale with 20% off. How much was the sale price?
- 4. Mentally find:-

a)	50% of 60	b) 10% of 80	c) 20% of 90	d) 5% of 15
e)	75% of 44	f) 25% of 16	g) 10% of 43	h) 15% of 70

- 5. 20% of the S2 pupils at Madras College wear glasses. If there are 140 pupils in S2 in the school, work out mentally how many wear glasses.
- 6. In 1995 the silver birch tree in my garden was 3m tall. By 2000 it had grown by 40%. Mentally work out how much had it grown?
- 7. Using question 6:- What was the new height of the birch tree?