

RECALL

Spot the mistake...

		3	5	2
x			2	7
	2	4	9	1
	7	0	4	0
	9	5	3	1
		+		

Th	H	T	U		Th	H	T	U
	2	4	7				2	9
	X					X		7
1	4		2		3	7		3
Th	H	T	U		Th	H	T	U
	6		4				7	6
	X		8			X		9
	3	1	2		2		8	4
Th	H	T	U		Th	H	T	U
	4	7				9		
	X					X		7
2	3	9	0		6	9	0	9

Fill me in...

L.O. MULTIPLY MULTI-DIGIT NUMBER UP TO 4 DIGITS BY A 2-DIGIT NUMBER USING THE FORMAL WRITTEN METHOD OF LONG MULTIPLICATION.

- SOME WILL EVEN: APE to explain WHY
- SOME WILL: Use various ways to solve and check sums.
- MOST WILL: Use column multiplication for 2-digit numbers.
- ALL WILL: Use column multiplication for 1-digit numbers.



APE

MY TURN



DAY PASS	0-2 days in advance	3-6 days in advance	7+ days in advance
Standard (age 13-64)	£37.00	£31.45	£27.75
Junior (age 3-12)	£27.00	£22.95	£20.25
Senior (age 65+)	£28.00	£23.80	£21.00
Student (age 16+ with valid ID card)	£27.00	£22.95	£20.25

- a) Miss Curry took a school trip to Park Beyond and booked 7 days + in advance. There were 38 pupils and 4 adults. How much did it cost in total?
- b) Four days later, Y4 decide to go too. They have 36 pupils and need 5 staff too. How much will it cost?

CHALLENGE – How much did the trip cost altogether?

Can school afford it as the budget for the treat was only £1900?



Work with a partner and share the work.
Use column method carefully.

YOUR TURN



DAY PASS	0-2 days in advance	3-6 days in advance	7+ days in advance
Standard (age 13-64)	£37.00	£31.45	£27.75
Junior (age 3-12)	£27.00	£22.95	£20.25
Senior (age 65+)	£28.00	£23.80	£21.00
Student (age 16+ with valid ID card)	£27.00	£22.95	£20.25

- a) Miss Curry took a school trip to Park Beyond and booked 7 days + in advance. There were 37 pupils and 4 adults. How much did it cost in total?
- b) Four days later, Y4 decide to go too. They have 35 pupils and need 5 staff too. How much will it cost?

CHALLENGE – How much did the trip cost altogether?

Can school afford it as the budget for the treat was only £1800?



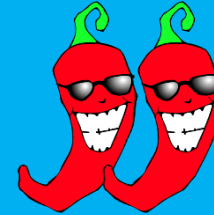
Work with a partner and share the work.
Use column method carefully.

Intelligent Practice

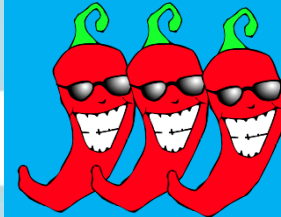
1 Day Tickets (Magic Kingdom only)	\$105.44 USD
1 Day Tickets (Epcot, Animal Kingdom, or Hollywood Studios)	\$100.11 USD
2 Day Tickets *	\$200.22 USD
3 Day Tickets *	\$291.81 USD
4 Day Tickets *	\$313.11 USD
5 Day Tickets *	\$323.76 USD
6 Day Tickets *	\$334.41 USD
7 Day Tickets *	\$345.06 USD
8 Day Tickets *	\$355.71 USD
9 Day Tickets *	\$366.36 USD
10 Day Tickets *	\$377.01 USD
* Visit any one theme park per day	



Price for fourteen 7 day tickets.



Price for twelve 3 day tickets.



Price for twenty-three 9 day tickets.



I want a one day ticket for all the theme parks for my whole class. How much will it be?

Intelligent Practice

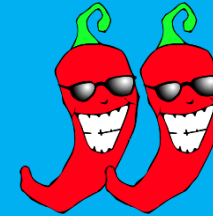
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* Visit any one theme park per day



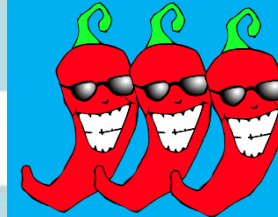
Price for fourteen 7 day tickets.

\$4830.84



Price for twelve 3 day tickets.

\$3501.72



Price for twenty-three 9 day tickets.

\$8426.28



I want a one day ticket for all the theme parks for my whole class. How much will it be?

???



Dive Deeper 1

1. Mrs. Andrews gives three of her children a calculation each.



Amita

$$\begin{array}{r} 1321 \\ \times \quad 21 \\ \hline \end{array}$$



Barbara

$$\begin{array}{r} 2131 \\ \times \quad 12 \\ \hline \end{array}$$



Clive

$$\begin{array}{r} 1113 \\ \times \quad 23 \\ \hline \end{array}$$

Which pupil has the largest answer?

2. A bakery sells boxes of cupcakes. There are 12 cupcakes in a box.

Last year, the bakery sold 1,233 boxes. How many cupcakes did they sell?



The bakery also sells muffins with cherries on the top. In one month, they used 2,411 cherries.

How many cherries will they use in the whole year?

3. James is using the following digit cards to complete a multiplication calculation.

1 2 2 4

He uses three of the digits in this calculation:

$$\begin{array}{r} 1 \square \square 1 \\ \times \quad 2 \square \\ \hline \end{array}$$

James wants to find calculations which have answers between 20,000 and 30,000.

Find two calculations he could use.



$$\begin{array}{r} 1. \quad \begin{array}{r} 4 \square \\ \times \quad \square 6 \\ \hline 246 \\ 820 \\ \hline 1086 \end{array} \end{array}$$

$$\begin{array}{r} 2. \quad \begin{array}{r} 3 \square \\ \times \quad \square 5 \\ \hline 160 \\ 1280 \\ \hline 1440 \end{array} \end{array}$$



Dive Deeper 1

Developing

1. **Amita**
2. **14,796 cupcakes; 28,932 cherries**
3. **Various answers, for example: $1,121 \times 22 = 24,662$; $1,221 \times 21 = 25,641$**



1.

		4	1
x		2	6
	2	4	6
	8	2	0
1	0	6	6

2.

		3	2
x		4	5
	1	6	0
1	2	8	0
1	4	4	0

3a. Use the digit cards to complete the calculation.



$$\square\square \div 2 = \square . 5$$

3b. Use the digit cards to complete the calculation.



$$3\square \div 2 = 1\square . \square$$