

1.2.21 MLJ is to use short multiplication 😊 😐 ? (Year 5)

	H	T	O
	1	5	6
x			3
	4	6	8
	1	1	

Short multiplication is one way to solve a multiplication problem.
 First we use our mental strategies to estimate an easier problem:
 $3 \times 150 = 450$. The answer will be around 450.
 We start with the ones. 3×6 is 18 ones. We rename this as 1 ten and 8 ones.
 We put 8 in the ones column and carry the 1 to the tens column.
 3×5 plus the carried 1 is 16 tens. We rename this as 1 hundred and 6 tens.
 We put 6 in the tens column and carry the 1 to the hundreds column.
 3×1 plus the carried 1 is 4 hundreds. We put 4 in the hundreds column.

Solve these problems using short multiplication. Estimate first:

a

	H	T	O
	3	2	7
x			3

b

	H	T	O
	2	4	7
x			4

c

	H	T	O
	1	5	4
x			5

d

	H	T	O
	3	1	5
x			3

e

	H	T	O
	2	8	6
x			2

f

	H	T	O
	1	9	4
x			5

RED HOT CHALLENGE

Dan's dad has resorted to bribery to counteract Dan's PlayStation addiction. For every evening, Dan spends away from the PlayStation, his dad pays him £3. So far, Dan has racked up an impressive 127 nights (though he looks like breaking any day now). How much money does this equate to?