

Short multiplication method

I am learning

to multiply a two- or three-digit number by 0-10 using the short multiplication method.

We can also use the short multiplication method. Instead of using separate steps, we can do it all together.

A length of track is 281 m. If Max runs this track six times, how many metres will he have run?

281 m × 6

- (a) Estimate.
 Think:
 281 rounds to 300.
 300 × 6 = 1,800
- (b) Calculate.

 Multiply each digit by 6, carrying over any regrouped amounts.
 - **Answer:** $281 \text{ m} \times 6 = 1,686 \text{ m}$
- 1 Work these out. Three are done for you.

HTU

(g)

(h)

281

1686

(f)

HTU

HTU

Check your answers using your calculator, but without using the x button!

P.89		Q3.
(a)	3 54	(g) 4 <u> 76</u> 9
(p)	6 [874	(b) 5 19 ⁴ 5
(0)	5 120	(c) 6 <u>[1'3'8</u> 023
(d)	9/14/4	(d) 2 [136 068
(e)	4 €7 <u>3</u> €18	(e) 5 <u>[160</u> 032
(f)	6 \£9 ³ 6 €16	(f)95 = 5 + 19
9	7 /€154	9 96 - 8 196
(h)	2 <u>€156</u> €053	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		(i) 156 - 4 [156] 4 039
		$(j) \frac{168}{7} = 7 \underbrace{168}_{24}$