Long multiplication with carrying

Multiply 236 by 14 by splitting 14 into 10 + 4.

Partial products

Calculation	Place value	Product
236 x 4	4 ones	944
236 x 10	1 ten	2,360
Total	**Add partial products**	**3,304**

Step-by-step solution

1. Multiply by 4 ones

4 x 6 = 24: write 4, carry 2. Then 4 x 3 + 2 = 14: write 4, carry 1.

2. Finish the ones-row product

4 x 2 + 1 = 9, so 236 x 4 = 944.

3. Multiply by 1 ten

The 1 in 14 means 10, so 236 x 10 = 2,360.

4. Add the partial products

944 + 2,360 = 3,304.

ANSWER

236 x 14 = 3,304

Check with the distributive property

236(10 + 4) = (236 x 10) + (236 x 4)

= 2,360 + 944 = 3,304, confirming the product.