Free Extra Maths Class · Grade 5

Long multiplication

Name: _____

Remember: Write the numbers underneath each other. Multiply by the units first, then by the tens, and add the two rows. **Why do we write a 0 in the second row?** The 2 in 23 is really 20, so 321 × 20 = 321 × 2 × 10. The 0 shows you are multiplying by tens.

1 26 × 10 =

			2	6
×			1	0
+				

2 43 × 20 =

			4	3
×			2	0
+				

3 132 × 4 =

		1	3	2
×				4

4 214 × 12 =

			2	1	4
×				1	2
+					

5 321 × 23 =

			3	2	1
×				2	3
+					

6 145 × 26 =

			1	4	5
×				2	6
+					

7 306 × 17 =

			3	0	6
×				1	7
+					

8 452 × 34 =

			4	5	2
×				3	4
+					

9 617 × 48 =

			6	1	7
×				4	8
+					

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10 738 × 56 =

			7	3	8
×				5	6
+					

11 Round 487 to the nearest 100 and 53 to the nearest 10. Then estimate the answer of 487 × 53.

12 Now work out exactly: 487 × 53

			4	8	7
×				5	3
+					

13 A farmer packs 144 oranges into each crate. How many oranges are there in 36 crates?

14 A school hall has 28 rows with 165 chairs in each row. How many chairs are there altogether?

15 Thabo wrote: 236 × 14 = 2 360 + 844 = 3 204. What is the right answer? Which step is wrong?

			2	3	6
×				1	4
+					

I got _____ out of 15 ☆ ☆ ☆

Free Extra Maths Class · Grade 5 · Memo

Memo: Long multiplication

1. **260**
   26 × 10 = 260

2. **860**
   43 × 20 = 860

3. **528**
   132 × 4 = 528

4. **2 568**
   214 × 2 = 428; 214 × 10 = 2 140; 428 + 2 140 = 2 568

5. **7 383**
   321 × 3 = 963; 321 × 20 = 6 420; 963 + 6 420 = 7 383

6. **3 770**
   145 × 6 = 870; 145 × 20 = 2 900; 870 + 2 900 = 3 770

7. **5 202**
   306 × 7 = 2 142; 306 × 10 = 3 060; 2 142 + 3 060 = 5 202

8. **15 368**
   452 × 4 = 1 808; 452 × 30 = 13 560; 1 808 + 13 560 = 15 368

9. **29 616**
   617 × 8 = 4 936; 617 × 40 = 24 680; 4 936 + 24 680 = 29 616

10. **41 328**
    738 × 6 = 4 428; 738 × 50 = 36 900; 4 428 + 36 900 = 41 328

11. **500 × 50 = 25 000**
    487 ≈ 500; 53 ≈ 50

12. **25 811**
    487 × 3 = 1 461; 487 × 50 = 24 350; 1 461 + 24 350 = 25 811

13. **5 184 oranges**
    144 × 6 = 864; 144 × 30 = 4 320; 864 + 4 320 = 5 184

14. **4 620 chairs**
    165 × 8 = 1 320; 165 × 20 = 3 300; 1 320 + 3 300 = 4 620

15. **3 304; 236 × 4 = 944, not 844**
    236 × 4 = 944; 236 × 10 = 2 360; 944 + 2 360 = 3 304