Long multiplication

Free Extra Maths Class · Grade 7

Name: _____

Remember: Write the numbers underneath each other and multiply by each digit: units, tens, hundreds. Write a 0 in the tens row and 00 in the hundreds row. **Decimals:** multiply without the commas, then count how many digits are behind the commas altogether – the answer gets that many digits behind its comma.

1. 345 × 27 =

			3	4	5
×				2	7
+					

Answer: _____

2. 1 248 × 36 =

			1	2	4	8
×					3	6
+						

Answer: _____

3. 2 405 × 48 =

			2	4	0	5
×					4	8
+						

Answer: _____

4. 609 × 125 =

				6	0	9	
×				1	2	5	
+							

Answer: _____

5. 3 214 × 203 =

				3	2	1	4	
×					2	0	3	
+								

Answer: _____

6. 4,36 × 7 =

	4	,	3	6
×				7

Answer: _____

7. 12,5 × 24 =

		1	2	,	5
×			2		4
+					

Answer: _____

8. 3,45 × 1,2 =

		3	,	4	5	
×				1	,	2
+						

Answer: _____

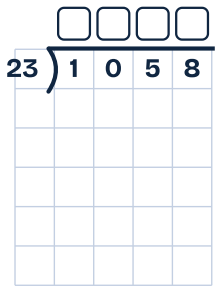
9. Estimate first: 498 × 61 ≈ ? Then work out the exact answer.

		4	9	8	
×			6	1	
+					

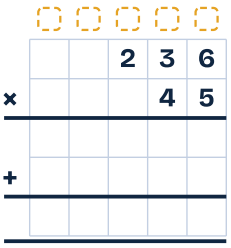
Answer: _____

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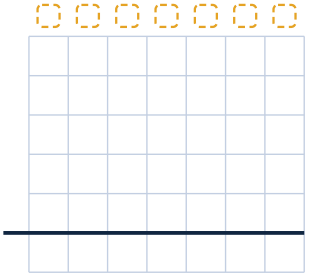
10. Which digit fits in the box? 4□ × 23 = 1 058



11. Lindiwe writes: 236 × 45 = 1 180 + 944 = 2 124. What is the right answer? What mistake did she make?

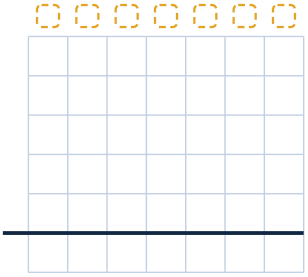


12. A stadium sells 2 450 tickets at R85 each. How much money does the stadium get?

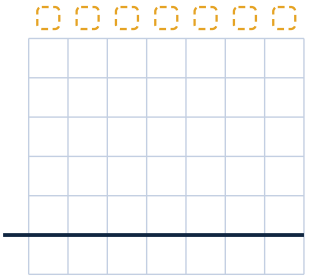


Answer: _____ **Answer:** _____ **Answer:** _____

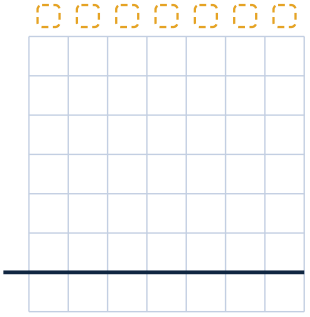
13. A factory makes 1 375 bottles an hour. How many bottles does it make in 24 hours?



14. Petrol costs R23,45 a litre. How much do 42 litres cost?



15. A school orders 128 boxes of crayons. Each box costs R37,50. What is the total cost?



Answer: _____ **Answer:** _____ **Answer:** _____

I got _____ **out of 15** ☆ ☆ ☆

Memo

Long multiplication

Other correct methods are also right.

1. **9 315**
345 × 7 = 2 415; 345 × 20 = 6 900; 2 415 + 6 900 = 9 315

2. **44 928**
1 248 × 6 = 7 488; 1 248 × 30 = 37 440; 7 488 + 37 440 = 44 928

3. **115 440**
2 405 × 8 = 19 240; 2 405 × 40 = 96 200; 19 240 + 96 200 = 115 440

4. **76 125**
609 × 5 = 3 045; 609 × 20 = 12 180; 609 × 100 = 60 900; 3 045 + 12 180 + 60 900 = 76 125

5. **652 442**
3 214 × 3 = 9 642; 3 214 × 200 = 642 800; 9 642 + 642 800 = 652 442

6. **30,52**
Multiply without commas: 436 × 7 = 3 052; 2 digit(s) after the comma → 30,52

7. **300**
Multiply without commas: 125 × 24 = 3 000; 1 digit(s) after the comma → 300

8. **4,14**
Multiply without commas: 345 × 12 = 4 140; 3 digit(s) after the comma → 4,14

9. **estimate 30 000; exact 30 378**
500 × 60 = 30 000; 498 × 1 = 498; 498 × 60 = 29 880; 498 + 29 880 = 30 378

10. **6 (46 × 23 = 1 058)**
1 058 ÷ 23 = 46

11. **10 620; she forgot the 0 for the tens (236 × 40 = 9 440)**
236 × 5 = 1 180; 236 × 40 = 9 440; 1 180 + 9 440 = 10 620

12. **R208 250**
2 450 × 5 = 12 250; 2 450 × 80 = 196 000; 12 250 + 196 000 = 208 250

13. **33 000 bottles**
1 375 × 4 = 5 500; 1 375 × 20 = 27 500; 5 500 + 27 500 = 33 000

14. **R984,90**
2 345 × 42 = 98 490; 2 digits after the comma → 984,90

15. **R4 800**
3 750 × 128 = 480 000; 2 digits after the comma → 4 800,00