

Year 4: Column multiplication: expanded and short: answers

Year 4 - Short Multiplication and Short Division - Lesson 4.3

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-4/ch04-multiplying-dividing/column-multiplication-expanded-and-short/

Exercise 4C Column multiplication: expanded and short

Non-calculator

1 Use the expanded column method.

(a) $36 \times 4 =$

Answer: 144

(b) $52 \times 7 =$

Answer: 364

(c) $48 \times 5 =$

Answer: 240

(d) $75 \times 6 =$

Answer: 450

(e) $123 \times 4 =$

Answer: 492

(f) $254 \times 3 =$

Answer: 762

2 Use short multiplication. These have no carrying.

(a) $21 \times 4 =$

Answer: 84

(b) $32 \times 3 =$

Answer: 96

(c) $42 \times 2 =$

Answer: 84

(d) $33 \times 3 =$

Answer: 99

(e) $24 \times 2 =$

Answer: 48

(f) $41 \times 6 =$

Answer: 246

3 Use short multiplication. These have carrying.

(a) $36 \times 4 =$

Answer: 144

(b) $47 \times 3 =$

Answer: 141

(c) $58 \times 6 =$

Answer: 348

(d) $65 \times 7 =$

Answer: 455

(e) $83 \times 9 =$

Answer: 747

(f) $94 \times 8 =$

Answer: 752

4 Use short multiplication. These are three-digit numbers with no carrying.

(a) $321 \times 2 =$

Answer: 642

(b) $212 \times 4 =$

Answer: 848

(c) $133 \times 3 =$

Answer: 399

(d) $231 \times 3 =$

Answer: 693

(e) $110 \times 5 =$

Answer: 550

(f) $122 \times 4 =$

Answer: 488

5 Use short multiplication. These are three-digit numbers with carrying.

(a) $256 \times 3 =$

Answer: 768

(b) $347 \times 5 =$

Answer: 1,735

(c) $418 \times 6 =$

Answer: 2,508

(d) $529 \times 4 =$

Answer: 2,116

(e) $678 \times 7 =$

Answer: 4,746

(f) $845 \times 9 =$

Answer: 7,605

6 There is a zero in each number. Use short multiplication.

(a) $306 \times 4 =$

Answer: 1,224

(b) $450 \times 6 =$

Answer: 2,700

(c) $709 \times 5 =$

Answer: 3,545

(d) $920 \times 7 =$

Answer: 6,440

7 Estimate first, then work out the exact answer.

(a) 48×6

Answer: 288

(b) 287×4

Answer: 1,148

(c) 513×8

Answer: 4,104

8 Each child forgot to add the carried digits. Work out the correct answer for each.

(a) Jack wrote $36 \times 4 = 124$

Answer: 144

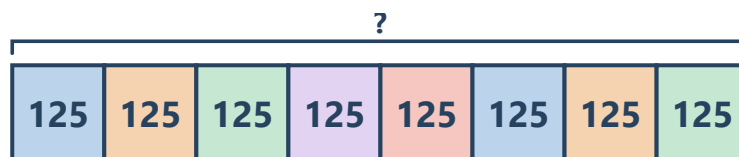
(b) Amira wrote $347 \times 6 = 1,842$

Answer: 2,082

(c) Noah wrote $528 \times 3 = 1,564$

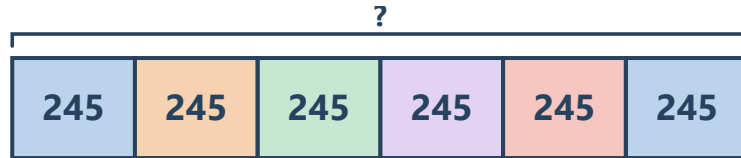
Answer: 1,584

9 A school hall has 8 rows of chairs. Each row has 125 chairs. How many chairs are there?



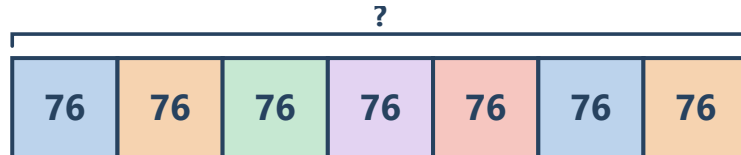
Answer: 1,000 chairs

- 10** A school buys 6 boxes of pencils. Each box has 245 pencils. How many pencils is that?



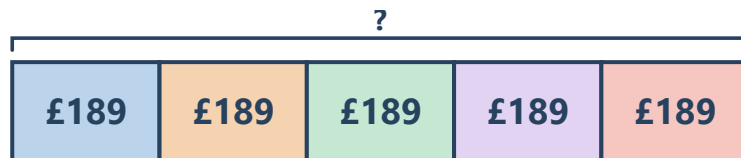
Answer: 1,470 pencils

- 11** A train has 7 carriages. Each carriage has 76 seats. How many seats are on the train?



Answer: 532 seats

- 12** A bike costs £189. A shop sells 5 of these bikes. How much money does the shop take?



Answer: £945

- 13** Mei says that $406 \times 5 = 230$. Use an estimate to show Mei is wrong. Then write the correct answer.

Answer: 2,030

- 14** Always, sometimes or never? When you multiply a three-digit number by 3, the answer has three digits.

Answer: Sometimes

- 15** Which two multiplications have the same answer? Tick **two** boxes. A 168×3 B 71×7 C 84×6 D 99×5

Answer: A and C

- 16** What is the biggest three-digit number that you can multiply by 4 and still get a three-digit answer? Show how you know.

Answer: 249 ($249 \times 4 = 996$)