

Year 5: Multiplying by a one-digit number: answers

Year 5 - Long Multiplication - 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-5/ch04-multiplication/multiplying-by-a-one-digit-number/

Exercise 4C Multiplying by a one-digit number Non-calculator

1 Use the grid method to work out each multiplication.

(a) $253 \times 3 =$

Answer: 759

(b) $417 \times 5 =$

Answer: 2,085

(c) $1,324 \times 4 =$

Answer: 5,296

(d) $2,038 \times 3 =$

Answer: 6,114

2 Use short multiplication to work out each multiplication.

(a) $325 \times 4 =$

Answer: 1,300

(b) $247 \times 6 =$

Answer: 1,482

(c) $518 \times 3 =$

Answer: 1,554

(d) $769 \times 8 =$

Answer: 6,152

3 Use short multiplication to work out each multiplication. These numbers have 4 digits.

(a) $1,234 \times 5 =$

Answer: 6,170

(b) $3,726 \times 4 =$

Answer: 14,904

(c) $5,408 \times 6 =$

Answer: 32,448

(d) $6,845 \times 7 =$

Answer: 47,915

4 Quick-fire! Work out each answer. Watch out for the zeros.

(a) $2,500 \times 4 =$

Answer: 10,000

(b) $3,070 \times 9 =$

Answer: 27,630

(c) $4,008 \times 6 =$

Answer: 24,048

(d) $9,999 \times 2 =$

Answer: 19,998

(e) $7,305 \times 3 =$

Answer: 21,915

(f) $8,888 \times 5 =$

Answer: 44,440

5 Aisha is working out $3,264 \times 7$. Here is her working so far.

$$\begin{array}{r}
 \begin{array}{ccccccc}
 & & \text{TTh} & \text{Th} & \text{H} & \text{T} & \text{O} \\
 & & 3 & 2 & 6 & 4 & \\
 \times & & & & & & 7 \\
 \hline
 & & & & & 4 & 8 \\
 & & 4 & 2 & & &
 \end{array}
 \end{array}$$

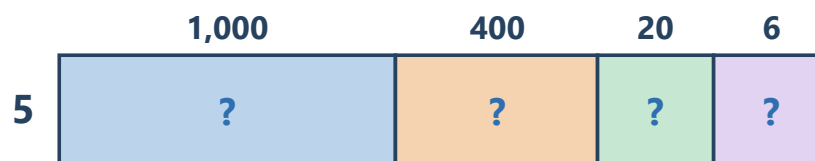
(a) What number does she carry from the tens column to the hundreds column?

Answer: 4

(b) What is the final answer?

Answer: 22,848

6 The picture shows $1,426 \times 5$ using the grid method. Work out the missing numbers and the answer.



Answer: 7,130

7 Work out the answer to each problem. The bar model will help.

(a) A cinema has 8 screens. Each screen has 245 seats. How many seats are there altogether?

Answer: 1,960 seats

(b) A school buys 5 boxes of paper. Each box has 2,150 sheets. How many sheets is that?

Answer: 10,750 sheets

- (c) Tom walks 1,672 steps every day. How many steps does he walk in 9 days?

Answer: 15,048 steps

8 Work out the total cost. Give each answer in pounds.

- (a) 6 items at £12.50 each

Answer: £75.00

- (b) 8 items at £3.45 each

Answer: £27.60

- (c) 4 items at £7.99 each

Answer: £31.96

9 Estimate first, then use short multiplication to work out each multiplication.

- (a) $2,618 \times 3$

Answer: 7,854

- (b) $7,481 \times 8$

Answer: 59,848

10 A school buys 6 laptops at £349 each and 6 cases at £18 each. How much does the school spend altogether?

Answer: £2,202

11 Jack works out 348×6 and gets 1,848. Is he correct? Explain what he has done wrong.

Answer: No. The correct answer is 2,088. Jack forgot to add the carried digits.

12 Priya works out $4,056 \times 7$ and writes 28,092. Find her mistake and write the correct answer.

Answer: 28,392. The hundreds digit should be 3 ($0 \times 7 + 3$ carried).

13 Always, sometimes or never?

- (a) A whole number multiplied by 6 gives an even answer.

Answer: Always

- (b) A 4-digit number multiplied by 5 gives a 5-digit answer.

Answer: Sometimes

14 Each box stands for one missing digit. What digit goes in the box? $3 \boxed{?} 6 \times 5 = 1,630$

Answer: 2

15 Challenge! Use each digit card once: 2, 4, 7, 9. Make a 3-digit number and a 1-digit number to multiply. What is the biggest product you can make?

Answer: $742 \times 9 = 6,678$