Two-digit multiplication stories — Worked key

Six stories · Two-digit factors · Edition 0U6SSY2

Read the model, then check the two partial products, the total and its unit.

Q1 · Ribbon lengths

A craft class has 81 pieces of ribbon. Each piece is 72 centimeters long. How long are all the pieces together?

WHY MULTIPLY?

81 lengths of 72 centimeters.

81 × 2 = 162

81 × 70 = 5,670

162 + 5,670 = 5,832

5,832 centimeters

Q2 · Theater seats

A theater has 24 rows with 91 seats in every row. How many seats are there altogether?

WHY MULTIPLY?

24 rows of 91 seats.

24 × 1 = 24

24 × 90 = 2,160

24 + 2,160 = 2,184

2,184 seats

Q3 · Greenhouse

A greenhouse fills 81 trays with 88 seedlings in each tray. How many seedlings are in these trays?

WHY MULTIPLY?

81 trays of 88 seedlings.

81 × 8 = 648

81 × 80 = 6,480

648 + 6,480 = 7,128

7,128 seedlings

Q4 · Art supplies

An art club buys 57 paint kits. The full price of each kit is $37. How much does the club spend?

WHY MULTIPLY?

57 kits at 37 dollars per kit.

57 × 7 = 399

57 × 30 = 1,710

399 + 1,710 = 2,109

2,109 dollars

Q5 · Paper rectangle

A rectangular poster is 58 centimeters long and 76 centimeters wide. What is the area of the poster?

WHY MULTIPLY?

58 rows of 76 unit squares.

58 × 6 = 348

58 × 70 = 4,060

348 + 4,060 = 4,408

4,408 square centimeters

Q6 · Packing station

A machine packs 42 buttons per minute. It works at that rate for 21 minutes. How many buttons does it pack?

WHY MULTIPLY?

21 minutes at 42 buttons per minute.

21 × 2 = 42

21 × 40 = 840

42 + 840 = 882

882 buttons

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