

Wednesday 20.01.2021

Multiplying 2-digits by 2-digits using grid method and column method

Answer the questions, using grid method or column method. Show your working out!

Question 1:

Grid method:

a) $45 \times 27 =$

b) $98 \times 13 =$

c) $66 \times 38 =$

Column multiplication:

a) $56 \times 18 =$

b) $36 \times 72 =$

c) $42 \times 29 =$

Question 2

Use each digit card once to write a multiplication.

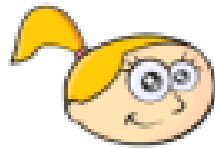


$$\square \times \square = \square$$

Find 5 possibilities, using the grid method or column method to calculate the answers.

Question 3

Eva says,



To multiply 23 by 57 I just need to calculate 20×50 and 3×7 and then add the totals.

What mistake has Eva made?
Explain your answer.

(Use grid method to calculate and prove your answer)

Question 4

Farmer Ron has a field that measures 53 m long and 25 m wide.

Farmer Annie has a field that measures 52 m long and 26 m wide.

Dora thinks that they will have the same area because the numbers have only changed by one digit each.

Do you agree? Prove it.

(Work out the size of Farmer Ron's field. Then work out the size of Farmer Annie's field. Explain your answer)

ANSWERS

Question 1

Grid method:

a) $45 \times 27 = 1215$

b) $98 \times 13 = 1274$

c) $66 \times 38 = 2508$

Column multiplication:

a) $56 \times 18 = 1008$

b) $36 \times 72 = 2592$

c) $42 \times 29 = 1218$

Question 2 - ANSWERS

Use each digit card once to write a multiplication.



$$\square \times \square = \square$$

Various answers

e.g

$$23 \times 45 = 1035$$

$$42 \times 35 = 1470$$

$$43 \times 52 = 2236$$

$$54 \times 32 = 1728$$

Eva says,



To multiply 23 by 57 I just need to calculate 20×50 and 3×7 and then add the totals.

What mistake has Eva made?
Explain your answer.

**Eva's calculation does not include 20×7 and 50×3 .
The answer should be 1311.**

Farmer Ron has a field that measures 53 m long and 25 m wide.

Farmer Annie has a field that measures 52 m long and 26 m wide.

Dora thinks that they will have the same area because the numbers have only changed by one digit each.

Do you agree? Prove it.

**Dora is wrong.
 $53 \times 25 = 1325\text{m}$
 $52 \times 26 = 1352\text{m}$**