

Decimal Multiplication

Practice Worksheet (Edexcel GCSE 1MA1 June 2017 1H Style)

I DO

Work out 54.6×4.3

WE DO

Work out 37.2×5.4

YOU DO 1

Work out 61.8×2.7

YOU DO 2

Work out 43.9×6.2

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CHALLENGE

Work out 4.85×3.6

ANSWERS & WORKED SOLUTIONS

I Do

Step 1: Ignore the decimals and calculate integer multiplication: 546×43 .

Step 2: $546 \times 40 = 21840$

Step 3: $546 \times 3 = 1638$

Step 4: $21840 + 1638 = 23478$

Step 5: There are 2 decimal places in the question (one in 54.6, one in 4.3). Place the decimal point 2 places from the right.

Answer: 234.78

We Do

Step 1: Ignore the decimals and calculate integer multiplication: 372×54 .

Step 2: $372 \times 50 = 18600$

Step 3: $372 \times 4 = 1488$

Step 4: $18600 + 1488 = 20088$

Step 5: There are 2 decimal places in the question (one in 37.2, one in 5.4). Place the decimal point 2 places from the right.

Answer: 200.88

ANSWERS & WORKED SOLUTIONS (CONTINUED)**You Do 1**

Step 1: Ignore the decimals and calculate integer multiplication: 618×27 .

Step 2: $618 \times 20 = 12360$

Step 3: $618 \times 7 = 4326$

Step 4: $12360 + 4326 = 16686$

Step 5: There are 2 decimal places in the question. Place the decimal point 2 places from the right.

Answer: 166.86

You Do 2

Step 1: Ignore the decimals and calculate integer multiplication: 439×62 .

Step 2: $439 \times 60 = 26340$

Step 3: $439 \times 2 = 878$

Step 4: $26340 + 878 = 27218$

Step 5: There are 2 decimal places in the question. Place the decimal point 2 places from the right.

Answer: 272.18

ANSWERS & WORKED SOLUTIONS (CONTINUED)**Challenge**

Step 1: Ignore the decimals and calculate integer multiplication: 485×36 .

Step 2: $485 \times 30 = 14550$

Step 3: $485 \times 6 = 2910$

Step 4: $14550 + 2910 = 17460$

Step 5: There are 3 decimal places in the original question (two in 4.85, one in 3.6). Place the decimal point 3 places from the right: 17.460.

Answer: 17.46