



Multiplying with Decimals

Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

- 1) What is two lots of 0.5?
- 2) $15 \times 4 = 60$. What's 1.5×4 ?
- 3) Ailsa is working out 2.3×9 . Which whole numbers can she multiply to help her?
- 4) Is the answer to 0.7×8 more or less than 56?

Answers: 1) 1 2) 6 3) E.g. 23 x 9 4) less

Now try these. Do your working in the spaces, and copy your answers into the boxes. Write your answers as decimals where necessary. One has been done for you.

1) 0.7×3

$7 \times 3 = 21$ ← First do a whole-number calculation.

$21 \div 10 = 2.1$

7 is 10 times as big as 0.7. So divide the answer to 7×3 by 10.

2.1

5) 2.1×6

If the whole-number calculation is too difficult to do in your head, use written multiplication.

1 mark

2) 0.4×5

1 mark

6) 5.8×7

1 mark

3) 1.2×4

1 mark

7) 0.9×37

1 mark

4) 0.3×11

1 mark

8) 0.6×123

1 mark



Multiplying with Decimals

9) 0.12×2

Here the whole number will be 100 times bigger than the decimal, so divide by 100 at the end.

1 mark

13) 1.34×4

1 mark

10) 0.22×3

1 mark

14) 8.13×9

1 mark

11) 0.73×7

1 mark

15) 46.37×6

1 mark

12) 2.13×3

1 mark

16) 16.59×8

1 mark

Calcuators can multiply numbers with up to two decimal places by a whole number. How about you?

