Varied Fluency
Step 4: Multiply Decimals by Integers

National Curriculum Objectives:

Mathematics Year 6: (6F9b) Multiply one-digit numbers with up to two-decimal places by whole numbers

Differentiation:

Developing Questions to support multiplying one-digit numbers with one decimal place by 2, 3, 4 and 5.
Expected Questions to support multiplying one-digit numbers with two decimal places by one-digit whole numbers.
Greater Depth Questions to support multiplying one-digit numbers with three decimal places by one-digit whole numbers. Includes zeroes in decimal places.

More resources which follow the same small steps as White Rose.

Did you like this resource? Don't forget to review it on our website.

Multiply Decimals by Integers

1a. Match the calculations to their products.

1.3 x 5	18.6
6.2 x 3	15.2
7.4 x 2	6.5
3.8 x 4	14.8

D VF

2a. True or false?

5.6 x 3 = 16.8

D VF

3a. Use <, > or = to complete the statements below.

2.9 x 5 ☐ 14.5

16.6 ☐ 8.4 x 2

D VF

4a. Complete the bar model below.

?			
3.6	3.6	3.6	3.6

D VF

Multiply Decimals by Integers

1b. Match the calculations to their products.

5.2 x 4	24.3
8.1 x 3	13.5
2.7 x 5	8.6
4.3 x 2	20.8

D VF

2b. True or false?

1.8 x 4 = 6.2

D VF

3b. Use <, > or = to complete the statements below.

3.4 x 3 ☐ 9.2

30.4 ☐ 7.6 x 4

D VF

4b. Complete the bar model below.

?		
4.5	4.5	4.5

D VF

Multiply Decimals by Integers

5a. Match the calculations to their products.

1.52 x 7	20.46
8.38 x 2	48.96
5.44 x 9	10.64
6.82 x 3	16.76

VF

6a. True or false?

$$4.86 \times 6 = 29.61$$

VF

7a. Use <, > or = to complete the statements below.

7.16 x 4 ☐ 28.64

36.31 ☐ 3.92 x 8

VF

8a. Complete the bar model below.

?				
4.89	4.89	4.89	4.89	4.89

VF

Multiply Decimals by Integers

5b. Match the calculations to their products.

3.97 x 5	25.12
6.28 x 4	54.84
9.14 x 6	58.24
7.28 x 8	19.85

VF

6b. True or false?

$$2.59 \times 7 = 19.13$$

VF

7b. Use <, > or = to complete the statements below.

9.26 x 3 ☐ 28.78

29.88 ☐ 4.83 x 6

VF

8b. Complete the bar model below.

?					
7.54	7.54	7.54	7.54	7.54	7.54

VF

Multiply Decimals by Integers

9a. Match the calculations to their products.

7.046 x 8	58.941
9.187 x 6	62.314
8.902 x 7	55.122
6.549 x 9	56.368

GD VF

10a. True or false?

6.024 x 8 = 48.092

GD VF

11a. Use <, > or = to complete the statements below.

4.856 x 9 ☐ 43.074

47.409 ☐ 7.902 x 6

GD VF

12a. Complete the bar model below.

?						
5.039	5.039	5.039	5.039	5.039	5.039	5.039

GD VF

Multiply Decimals by Integers

9b. Match the calculations to their products.

5.724 x 8	48.258
8.043 x 6	45.792
6.547 x 9	54.649
7.807 x 7	58.923

GD VF

10b. True or false?

9.407 x 5 = 47.305

GD VF

11b. Use <, > or = to complete the statements below.

3.713 x 8 ☐ 29.074

72.071 ☐ 8.019 x 9

GD VF

12b. Complete the bar model below.

?							
4.603	4.603	4.603	4.603	4.603	4.603	4.603	4.603

GD VF

Varied Fluency
Multiply Decimals by Integers

Developing

1a. 1.3 x 5 and 6.5, 6.2 x 3 and 18.6, 7.4 x 2 and 14.8, 3.8 x 4 and 15.2
2a. True
3a. =, <
4a. 14.4

Expected

5a. 1.52 x 7 and 10.64, 8.38 x 2 and 16.76, 5.44 x 9 and 48.96, 6.82 x 3 and 20.46
6a. False. 4.86 x 6 = 29.16
7a. =, >
8a. 24.45

Greater Depth

9a. 7.046 x 8 and 56.368, 9.187 x 6 and 55.122, 8.902 x 7 and 62.314, 6.549 x 9 and 58.941
10a. False. 6.024 x 8 = 48.192
11a. >, <
12a. 35.273

Varied Fluency
Multiply Decimals by Integers

Developing

1b. 5.2 x 4 and 20.8, 8.1 x 3 and 24.3, 2.7 x 5 and 13.5, 4.3 x 2 and 8.6
2b. False. 1.8 x 4 = 7.2
3b. >, =
4b. 13.5

Expected

5b. 3.97 x 5 and 19.85, 6.28 x 4 and 25.12, 9.14 x 6 and 54.84, 7.28 x 8 = 58.24
6b. False. 2.59 x 7 = 18.13
7b. <, >
8b. 45.24

Greater Depth

9b. 5.724 x 8 and 45.792, 8.043 x 6 and 48.258, 6.547 x 9 and 58.923, 7.807 x 7 and 54.649
10b. False. 9.407 x 5 = 47.035
11b. >, <
12b. 36.824