

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

Multiply Decimals by Integers

1a. Match the calculations to their products.

1.3×5

18.6

6.2×3

15.2

7.4×2

6.5

3.8×4

14.8



VF

1b. Match the calculations to their products.

5.2×4

24.3

8.1×3

13.5

2.7×5

8.6

4.3×2

20.8



VF

2a. True or false?

$5.6 \times 3 = 16.8$



VF

2b. True or false?

$1.8 \times 4 = 6.2$



VF

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

$2.9 \times 5 \quad \square \quad 14.5$

$16.6 \quad \square \quad 8.4 \times 2$



VF

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

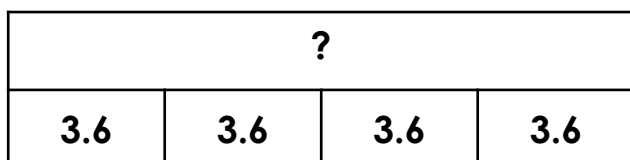
$3.4 \times 3 \quad \square \quad 9.2$

$30.4 \quad \square \quad 7.6 \times 4$



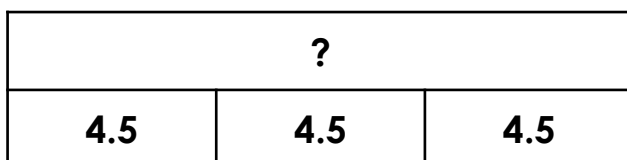
VF

4a. Complete the bar model below.



VF

4b. Complete the bar model below.



VF

Multiply Decimals by Integers

Multiply Decimals by Integers

5a. Match the calculations to their products.

1.52×7

20.46

8.38×2

48.96

5.44×9

10.64

6.82×3

16.76



VF

5b. Match the calculations to their products.

3.97×5

25.12

6.28×4

54.84

9.14×6

58.24

7.28×8

19.85



VF

6a. True or false?

$4.86 \times 6 = 29.61$



VF

6b. True or false?

$2.59 \times 7 = 19.13$



VF

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

$7.16 \times 4 \quad \square \quad 28.64$

$36.31 \quad \square \quad 3.92 \times 8$



VF

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

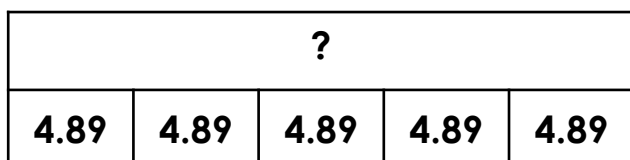
$9.26 \times 3 \quad \square \quad 28.78$

$29.88 \quad \square \quad 4.83 \times 6$



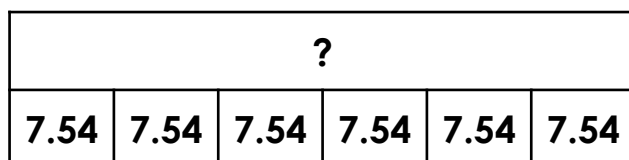
VF

8a. Complete the bar model below.



VF

8b. Complete the bar model below.



VF

Multiply Decimals by Integers

Multiply Decimals by Integers

9a. Match the calculations to their products.

7.046×8

58.941

9.187×6

62.314

8.902×7

55.122

6.549×9

56.368



VF

9b. Match the calculations to their products.

5.724×8

48.258

8.043×6

45.792

6.547×9

54.649

7.807×7

58.923



VF

10a. True or false?

$6.024 \times 8 = 48.092$



VF

10b. True or false?

$9.407 \times 5 = 47.305$



VF

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

$4.856 \times 9 \quad \square \quad 43.074$

$47.409 \quad \square \quad 7.902 \times 6$



VF

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

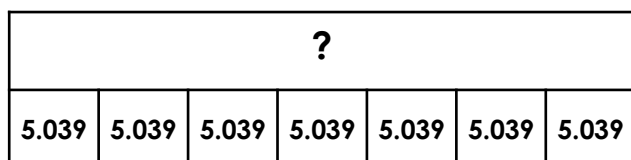
$3.713 \times 8 \quad \square \quad 29.074$

$72.071 \quad \square \quad 8.019 \times 9$



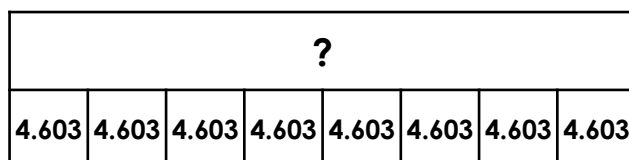
VF

12a. Complete the bar model below.



VF

12b. Complete the bar model below.



VF

Varied Fluency
Multiply Decimals by Integers

Developing

1a. 1.3×5 and 6.5 , 6.2×3 and 18.6 , 7.4×2 and 14.8 , 3.8×4 and 15.2

2a. True

3a. $=$, $<$

4a. 14.4

Expected

5a. 1.52×7 and 10.64 , 8.38×2 and 16.76 , 5.44×9 and 48.96 , 6.82×3 and 20.46

6a. False. $4.86 \times 6 = 29.16$

7a. $=$, $>$

8a. 24.45

Greater Depth

9a. 7.046×8 and 56.368 , 9.187×6 and 55.122 , 8.902×7 and 62.314 , 6.549×9 and 58.941

10a. False. $6.024 \times 8 = 48.192$

11a. $>$, $<$

12a. 35.273

Varied Fluency
Multiply Decimals by Integers

Developing

1b. 5.2×4 and 20.8 , 8.1×3 and 24.3 , 2.7×5 and 13.5 , 4.3×2 and 8.6

2b. False. $1.8 \times 4 = 7.2$

3b. $>$, $=$

4b. 13.5

Expected

5b. 3.97×5 and 19.85 , 6.28×4 and 25.12 , 9.14×6 and 54.84 , $7.28 \times 8 = 58.24$

6b. False. $2.59 \times 7 = 18.13$

7b. $<$, $>$

8b. 45.24

Greater Depth

9b. 5.724×8 and 45.792 , 8.043×6 and 48.258 , 6.547×9 and 58.923 , 7.807×7 and 54.649

10b. False. $9.407 \times 5 = 47.035$

11b. $>$, $<$

12b. 36.824