

Varied Fluency

Step 2: Multiplying by 10, 100 and 1,000

National Curriculum Objectives:

Mathematics Year 6: (6F9a) [Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places](#)

Differentiation:

Developing Questions to support multiplying up to a 2-digit number with up to 2 decimal places by 10, 100 and 1,000.

Expected Questions to support multiplying up to a 3-digit number with up to 3 decimal places by 10, 100 and 1,000. Some questions include multiplying by multiples of 10.

Greater Depth Questions to support multiplying up to a 3-digit number with up to 3 decimal places by 10, 100 and 1,000. Some questions include multiplying by multiples of 10, 100 or 1,000.

More [Year 6 Decimals](#) resources.

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Multiplying by 10, 100 and 1,000

Multiplying by 10, 100 and 1,000

1a. Multiply the following number by 10, 100 and 1,000.

	Th	H	T	O	t	h
			5	6	8	
x 10						
x 100						
x 1,000						



VF

1b. Multiply the following number by 10, 100 and 1,000.

	Th	H	T	O	t	h
			8	2	9	
x 10						
x 100						
x 1,000						



VF

2a. Select the correct answer.

$$2.57 \times 100 = \boxed{}$$

25.7

257

2,570



VF

2b. Select the correct answer.

$$43.51 \times 100 = \boxed{}$$

43,510

4,351

435.1



VF

3a. Which calculation is incorrect?

A. $92.6 \times 10 = 926$

B. $3.65 \times 100 = 36.5$

C. $8.24 \times 1,000 = 8,240$



VF

3b. Which calculation is incorrect?

A. $74.66 \times 10 = 746.6$

B. $5.29 \times 100 = 529$

C. $9.13 \times 1,000 = 91.30$



VF

4a. Use the multiplication cards to complete the following calculations.

x 10

x 100

x 1,000

A. $2.46 \boxed{} = 2,460$

B. $81.54 \boxed{} = 815.4$

C. $6.39 \boxed{} = 639$



VF

4b. Use the multiplication cards to complete the following calculations.

x 10

x 100

x 1,000

A. $37.85 \boxed{} = 378.5$

B. $4.22 \boxed{} = 4,220$

C. $1.97 \boxed{} = 197$



VF

5a. Multiply the following number.

12.349

x 10

x 100

x 1,000



VF

5b. Multiply the following number.

43.718

x 10

x 100

x 1,000



VF

6a. Select the correct answer.

463.79

x

100

=

46,379

4,637.9

463.790



VF

6b. Select the correct answer.

825.23

x

100

=

825,230

82,523

825.230



VF

7a. Which calculation is incorrect?

A. $245.3 \times 20 = 4,906$

B. $4.94 \times 100 = 49.4$

C. $0.49 \times 1,000 = 490$



VF

7b. Which calculation is incorrect?

A. $87.6 \times 50 = 4,380$

B. $9.454 \times 100 = 94.54$

C. $165.98 \times 1,000 = 165,980$



VF

8a. Use the multiplication cards to complete the following calculations.

x 10

x 100

x 1,000

A. $0.728 \times \square = 72.8$

B. $18.54 \times \square = 185.4$

C. $5.984 \times \square = 5,984$



VF

8b. Use the multiplication cards to complete the following calculations.

x 10

x 100

x 1,000

A. $35.650 \times \square = 35,650$

B. $0.874 \times \square = 8.74$

C. $968.48 \times \square = 96,848$



VF

9a. Multiply the following number.

- x 10
- x 100
- 72.916** x 1,000
- x 20
- x 200
- x 2,000



VF

9b. Multiply the following number.

- x 10
- x 100
- 85.069** x 1,000
- x 50
- x 500
- x 5,000



VF

10a. Select the correct answer.

963.79 x 200 =

19,275.8

192,758

96,379



VF

10b. Select the correct answer.

284.37 x 20 =

568.74

56,874

5,687.4



VF

11a. Which calculation is incorrect?

A. 824.68 x 50 = 41,234

B. 44.4 x 10 x 10 = 4,440

C. 4.840 x 2,000 = 96,800



VF

11b. Which calculation is incorrect?

A. 41.684 x 200 = 8,336.8

B. 548.34 x 300 = 5,483.4

C. 90.22 x 10 x 100 = 90,220



VF

12a. Use the multiplication cards to complete the following calculations.

x 50

x 200

x 1,000

A. 92.68 = 18,536

B. 18.54 = 927

C. 3.983 = 3,983



VF

12b. Use the multiplication cards to complete the following calculations.

x 500

x 100

x 2,000

A. 6.050 = 605

B. 41.93 = 20,965

C. 7.28 = 14,560



VF

Varied Fluency
Multiplying by 10, 100 and 1,000

Developing

- 1a. 56.8; 568; 5,680
2a. 257
3a. B is incorrect.
4a. A: x 1,000; B: x 10; C: x 100

Expected

- 5a. 123.49; 1,234.9; 12,349
6a. 46,379
7a. B is incorrect.
8a. A: x 100; B: x 10; C: x 1,000

Greater Depth

- 9a. 729.16; 7,291.6; 72,916; 1,458.32;
14,583.2; 145,832
10a. 192,758
11a. C is incorrect.
12a. A: x 200; B: x 50; C: x 1,000

Varied Fluency
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Developing

- 1b. 82.9; 829; 8,290
2b. 4,351
3b. C is incorrect.
4b. A: x 10; B: x 1,000; C: x 100

Expected

- 5b. 437.18; 4,371.8; 43,718
6b. 82,523
7b. B is incorrect.
8b. A: x 1,000; B: x 10; C: x 100

Greater Depth

- 9b. 850.69; 8,506.9; 85,069; 4,253.45;
42,534.5; 425,345
10b. 5,687.4
11b. B is incorrect.
12b. A: x 100; B: x 500; C: x 2,000