

Varied Fluency

Step 11: Multiply by 10, 100 and 1,000

National Curriculum Objectives:

Mathematics Year 5: (5C6b) [Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000](#)

Differentiation:

Developing Questions to support multiplying by 10, 100 and 1,000. Using decimal numbers; all questions have visual representation for support (e.g. Place value chart, Gattegno grid).

Expected Questions to support multiplying by 10, 100 and 1,000. Using numbers up to 3 decimal places.

Greater Depth Questions to support multiplying by 10, 100 and 1,000. Multi-step problems, using decimal numbers. (e.g. $13.425 \times 10 \times 100 \times 10$)

More [Year 5 Decimals](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Multiply by 10, 100 and 1,000

Multiply by 10, 100 and 1,000

1a. Multiply 215 by 10. Put your answer in the place value chart.

TTh	Th	H	T	O	Tths	Hths



VF

1b. Multiply 36 by 100. Put your answer in the place value chart.

TTh	Th	H	T	O	Tths	Hths



VF

2a. True or false? The place value chart shows the answer to 21 multiplied by 1,000.

TTh	Th	H	T	O	Tths	Hths
	●	●				



VF

2b. True or false? The place value chart shows the answer to 142 multiplied by 100.

TTh	Th	H	T	O	Tths	Hths
●	●●●	●●				



VF

3a. Has this number been multiplied by 10, 100 or 1,000?

$$42 \times \boxed{} = 42,000$$

TTh	Th	H	T	O	Tths	Hths



VF

3b. Has this number been multiplied by 10, 100 or 1,000?

$$578 \times \boxed{} = 5,780$$

TTh	Th	H	T	O	Tths	Hths



VF

4a. Fill in the missing number.

$$\boxed{} \times 1,000 = 18,000$$

TTh	Th	H	T	O	Tths	Hths



VF

4b. Fill in the missing number.

$$\boxed{} \times 10 = 400$$

TTh	Th	H	T	O	Tths	Hths



VF

Multiply by 10, 100 and 1,000

Multiply by 10, 100 and 1,000

5a. Multiply 6.125 by 100. Put your answer in the place value chart.

TTh	Th	H	T	O	Tths	Hths
					●	
					●	



VF

5b. Multiply 12.053 by 1,000. Put your answer in the place value chart.

TTh	Th	H	T	O	Tths	Hths
					●	
					●	



VF

6a. True or false? The place value chart shows the answer to 122.5 multiplied by 10.

TTh	Th	H	T	O	Tths	Hths
	●	●	●	●	●	●
		●	●	●	●	●



VF

6b. True or false? The place value chart shows the answer to 0.95 multiplied by 100.

TTh	Th	H	T	O	Tths	Hths
		●●●	●		●	
		●●●	●●●		●	



VF

7a. Has this number been multiplied by 10, 100 or 1,000?

$$54.22 \times \boxed{} = 542.2$$



VF

7b. Has this number been multiplied by 10, 100 or 1,000?

$$0.064 \times \boxed{} = 64$$



VF

8a. Fill in the missing number.

$$\boxed{} \times 1,000 = 26$$



VF

8b. Fill in the missing number.

$$\boxed{} \times 100 = 109$$



VF

Multiply by 10, 100 and 1,000

Multiply by 10, 100 and 1,000

9a. Multiply 310.99 by 100. Put your answer in the place value chart.

TTh	Th	H	T	O	Tths	Hths



VF

9b. Multiply 0.106 by 1,000. Put your answer in the place value chart.

TTh	Th	H	T	O	Tths	Hths



VF

10a. True or false? The place value chart shows the answer to 21.321 multiplied by 10, then by 10 again.

TTh	Th	H	T	O	Tths	Hths
•	•	•	•	•		



VF

10b. True or false? The place value chart shows the answer to 0.208 multiplied by 100, then by 10.

TTh	Th	H	T	O	Tths	Hths
		•		•	•	•



VF

11a. Has this number been multiplied by 10, 100 or 1,000?

$$10.007 \times 10 \times \square = 10,007$$



VF

11b. Has this number been multiplied by 10, 100 or 1,000?

$$1.221 \times 10 \times \square = 122.1$$



VF

12a. Fill in the missing number.

$$\square \times 10 \times 10 = 5.5$$



VF

12b. Fill in the missing number.

$$\square \times 100 \times 10 = 158$$



VF

Varied Fluency

Multiplying by 10, 100 and 1,000

Developing

1a.

TTh	Th	H	T	O	Tths	Hths
	•	•	•••	•	•	

2a. **False, it has been multiplied by 100.**

3a. **1,000**

4a. **18**

Expected

5a.

TTh	Th	H	T	O	Tths	Hths
		•••	•	•	•••	•••

6a. **True**

7a. **10**

8a. **0.026**

Greater Depth

9a.

TTh	Th	H	T	O	Tths	Hths	Thths
••	•		•••	•••	•		

10a. **False, it has been multiplied by 1,000**

11a. **100**

12a. **0.055**

Varied Fluency

Multiplying by 10, 100 and 1,000

Developing

1b.

TTh	Th	H	T	O	Tths	Hths
	•	•••		•	•	

2b. **True**

3b. **10**

4b. **40**

Expected

5b.

TTh	Th	H	T	O	Tths	Hths
•	•		•••	•	••	••

6b. **False, it has been multiplied by 1,000.**

7b. **1,000**

8b. **1.09**

Greater Depth

9b.

TTh	Th	H	T	O	Tths	Hths	Thths
		•		•••	•		

10b. **True**

11b. **10**

12b. **0.158**