Varied Fluency
Step 8: 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 1,000

Differentiation:

Developing Questions to support multiplying up to 5-digit numbers by 10, 100 and 1,000. Includes PV charts and counters for each question.
Expected Questions to support multiplying up to and including 5-digit numbers by 10, 100 and 1,000, with some PV charts and numerals.
Greater Depth Questions to support multiplying up to 5-digit numbers by 10, 100 and 1,000 where some numbers are presented using unconventional partitioning and numbers presented in context i.e money, measurements.

More Year 5 Multiplication and Division resources.

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

Multiply by 10, 100 and 1,000

1a. Look at the number shown below.

M	HTh	TTh	Th	H	T	O
				●●	●●●	●

Multiply the number by 100. Record your answer in the place value chart below.

M	HTh	TTh	Th	H	T	O

D VF

1b. Look at the number shown below.

M	HTh	TTh	Th	H	T	O
			●●	●	●●●	●●

Multiply the number by 10. Record your answer in the place value chart below.

M	HTh	TTh	Th	H	T	O

D VF

2a. Circle the correct answer to the following calculation.

16,251 x 10 =

M	HTh	TTh	Th	H	T	O
		●	●●●	●●	●●	●

M	HTh	TTh	Th	H	T	O

D 162,510 1,625,100 162,150 VF

2b. Circle the correct answer to the following calculation.

615 x 1,000 =

M	HTh	TTh	Th	H	T	O
				●●●	●	●●●

M	HTh	TTh	Th	H	T	O

D 651,000 6,150,000 615,000 VF

3a. Complete the calculations.

[ ] = 6,461 x 1,000

M	HTh	TTh	Th	H	T	O
			●●●	●●	●●●	●

M	HTh	TTh	Th	H	T	O

D VF

3b. Complete the calculations.

[ ] = 4,252 x 100

M	HTh	TTh	Th	H	T	O
			●●	●●	●●●	●●

M	HTh	TTh	Th	H	T	O

D VF

4a. Add the missing multiples to complete the calculations.

3,613 x [ ] = 361,300

M	HTh	TTh	Th	H	T	O
			●●●	●●●	●	●●●

E VF

4b. Add the missing multiples to complete the calculations.

5,161 x [ ] = 5,161,000

M	HTh	TTh	Th	H	T	O
			●●●	●	●●●	●

D VF

Multiply by 10, 100 and 1,000

5a. Look at the number shown below.

2,613

Multiply the number by 10. Record your answer in the place value chart below.

M	HTh	TTh	Th	H	T	O

E VF

6a. Circle the correct answer to the following calculation.

35,201 x 100 =

M	HTh	TTh	Th	H	T	O

E 3,521,100 3,520,100 352,010 VF

7a. Complete the calculations.

A. ☐ = 1,836 x 100

B. 10 x 41,059 = ☐

C. ☐ = 6,273, x 1,000

E VF

8a. Add the missing multiples to complete the calculations.

3,607 x ☐ = 360,700

306,420 x ☐ = 3,064,200

E VF

Multiply by 10, 100 and 1,000

5b. Look at the number shown below.

5,291

Multiply the number by 100. Record your answer in the place value chart below.

M	HTh	TTh	Th	H	T	O

E VF

6b. Circle the correct answer to the following calculation.

23,460 x 10 =

M	HTh	TTh	Th	H	T	O

E 2,346,000 2,340,600 234,600 VF

7b. Complete the calculations.

A. ☐ = 52,408 x 100

B. 1,000 x 3,079 = ☐

C. ☐ = 29,175 x 10

E VF

8b. Add the missing multiples to complete the calculations.

45,918 x ☐ = 459,180

4,520 x ☐ = 4,520,000

E VF

Multiply by 10, 100 and 1,000

9a. Look at the number shown below.

16,020

Multiply the number by 100. Record your answer below.

GD VF

Multiply by 10, 100 and 1,000

9b. Look at the number shown below.

20 hundreds and 89 ones

Multiply the number by 1,000. Record your answer below.

GD VF

10a. Circle the correct answer to the following calculations.

3,705 x 100 x 10 =

3,750,500	3,705,000	3,750,000

420 hundreds and 55 tens x 10 =

47,550	4,255,000	425,500

GD VF

10b. Circle the correct answer to the following calculations.

91 hundreds, 62 tens and 24 ones x 1,000

9,744,000	972,400	9,747,000

8,070 x 10 x 10 =

8,070,000	870,000	807,000

GD VF

11a. Complete the calculations.

A. ☐ = 400 tens and 54 ones x 10 x 10

B. 1,000 x 2,306ml = ☐

C. ☐ = 6,273cm x 10 x 100

GD VF

11b. Complete the calculations.

A. ☐ = 5,096m x 100 x 10

B. 17 thousands and 91 tens x 10 x 10 = ☐

C. ☐ = 2,977km x 100

GD VF

12a. Add the missing multiples to complete the calculations.

5,027cm x ☐ x ☐ = 5,027,000cm

90,206m x ☐ x ☐ = 9,020,600m

GD VF

12b. Add the missing multiples to complete the calculations.

2,530p x ☐ x ☐ = 253,000

£16,102 x ☐ x ☐ = £1,610,200

GD VF

Varied Fluency
Multiply by 10, 100 and 1,000

Developing
1a. Place value chart representing 46,100
2a. 162,510 circled
3a. 6,461,000
4a. 100

Expected
5a. Place value chart representing 26,130
6a. 3,520,100 circled
7a. A = 183,600; B = 410,590; C = 6,273,000
8a. 100 and 10

Greater Depth
9a. 1,602,000
10a. 3,705,000 and 425,500 circled
11a. A = 405,400; B = 2,306,000ml; C = 6,723,000cm
12a. 10 and 100 or 100 and 10; 10 and 10.

Varied Fluency
Multiply by 10, 100 and 1,000

Developing
1b. Place value chart representing 21,340
2b. 615,000 circled
3b. 425,200
4b. 1,000

Expected
5b. Place value chart representing 529,100
6b. 234,600 circled
7b. A = 5,240,800; B = 3,079,000; C = 291,750
8b. 10 and 1,000

Greater Depth
9b. 2,089,000
10b. 9,744,000 and 807,000 circled
11b. A = 5,096,000ml; B = 1,791,000; C = 297,700km
12b. 10 and 10 for both questions.