Homework/Extension
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:

Questions 1, 4 and 7 (Varied Fluency)
Developing Find the smallest and greatest totals when multiplying up to and including 5-digit numbers by 10, 100 or 1, 000. Includes PV charts and counters for each question.
Expected Find the smallest and greatest totals when multiplying up to and including 5-digit numbers by 10, 100 or 1, 000.
Greater Depth Find the smallest and greatest totals when multiplying up to and including 5-digit numbers by 10, 100 or 1, 000 where some numbers are presented using unconventional partitioning and numbers presented in context i.e money, measurements.

Questions 2, 5 and 8 (Varied Fluency)
Developing Determine if the answer is correct when multiplying up to and including 5-digit numbers (no zeros) by 10, 100 or 1, 000 with the starting number and answer shown using a PV chart.
Expected Determine if the answer is correct when multiplying up to and including 5-digit numbers by 10, 100 or 1, 000 with the answer shown in a PV chart.
Greater Depth Determine if the answer is correct when multiplying up to and including 5-digit numbers by 10, 100 or 1, 000 using numbers presented in context i.e money, measurements, including conversions.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Multiply the three starting numbers up to and including 5-digit numbers shown in a place value chart by 10, 100 or 1, 000 and match it with the total.
Expected Multiply the four starting numbers up to and including 5-digit numbers by 10, 100 or 1,000 and match it with the total.
Greater Depth Multiply the four starting numbers up to and including 5-digit numbers presented using unconventional partitioning and numbers presented in context i.e money, measurements by 10, 100 or 1, 000 and match it with the total.

More Year 5 Multiplication and Division resources.

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

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Multiply by 10, 100 and 1,000

1. Jess is multiplying different numbers by 10, 100 or 1,000. Circle the greatest number and underline the smallest number she creates.

A. **676 x 1,000**

HTh	TTh	Th	H	T	O
			●●● ●●●	●●● ●●● ●	●●● ●●●

B. **61,230 x 10**

HTh	TTh	Th	H	T	O
	●●● ●●●	●	●●	●●●	

C. **6,231 x 100**

HTh	TTh	Th	H	T	O
		●●● ●●●	●●	●●●	●

☆D

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2. Maisie is multiplying 420 x 1,000. She has shown her starting number and her answer on the place value grids below.

HTh	TTh	Th	H	T	O
			●● ●●	●●	

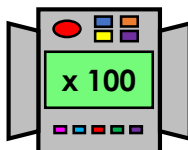| HTh	TTh	Th	H	T	O
		●● ●●	●●		●●

Is Maisie correct?

☆D

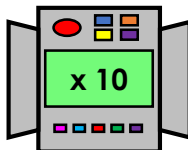**3. Draw a line from the starting number to x10, x100 or x 1,000 and draw a line to the correct total.**

A.

HTh	TTh	Th	H	T	O
		●●●	●	●●●	●●● ●●

x 100

HTh	TTh	Th	H	T	O
●●● ●●	●	●●● ●●	●●● ●●		

B.

HTh	TTh	Th	H	T	O
	●●● ●●	●	●●● ●	●●● ●	

x 10

HTh	TTh	Th	H	T	O
●●●	●●	●●● ●			

C.

HTh	TTh	Th	H	T	O
			●●● ●●● ●●	●●● ●●	●●● ●●

x 1,000

HTh	TTh	Th	H	T	O
●●●	●	●●●	●●		

☆D

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Homework/Extension – Multiply by 10, 100 and 1,000 – Year 5 Developing
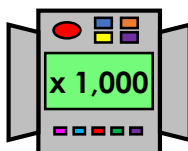
Multiply by 10, 100 and 1,000

4. Joshua is multiplying different numbers by 10, 100 or 1,000. Circle the greatest number and underline the smallest number he creates.

A. 7,152 x 10

B. 4,205 x 1,000

C. 81,426 x 10

D. 5,081 x 100

E. 764 x 100

F. 962 x 1,000

VF
HW/Ext

5. Alfie is multiplying 2,805 by 100. He has shown his answer on the place value grid below.

HTh	TTh	Th	H	T	O
	● ●	● ● ● ● ● ● ● ●		● ● ● ● ●	

Is Alfie correct?

VF
HW/Ext

6. Draw a line from the starting number to x10, x100 or x 1,000 and draw a line to the correct total.
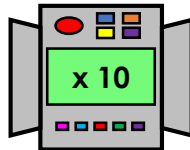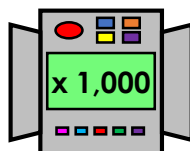
A. 515

x 100
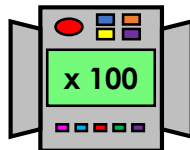
154,920

B. 50,412

51,500

C. 15,492

x 10

5,402,000

D. 5,402

x 1,000

504,120

RPS
HW/Ext

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Multiply by 10, 100 and 1,000

7. Jacob is multiplying different numbers by 10, 100 or 1,000. Circle the greatest number and underline the smallest number he creates.

A.
395 x 10 x 100

B.
40 tens and 15 hundreds x 1,000

C.
3,950 x 10 x 10

D.
81 hundreds and 12 ones x 100

E.
509 x 10 x 100

F.
65 hundreds and 124 ones x 10

VF
HW/Ext

8. Charlie is multiplying 405cm by 1,000. He has given his answer in metres.
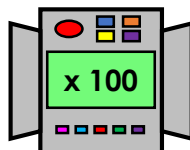
The answer is 4,050 metres.
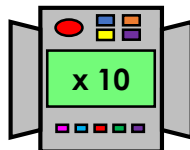
Alfie

Is Charlie correct?

VF
HW/Ext

9. Draw a line from the starting number to x10, x100 or x 1,000 and draw a line to the correct total.

A.
2,205p

B.
720cm

C.
7,020cm
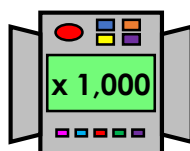
D.
252p

x 100

x 10

x 1,000

£2,520

702m

£220.50

7,200m

RPS
HW/Ext

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Homework/Extension – Multiply by 10, 100 and 1,000 – Year 5 Greater Depth

Developing

1. A circled, B underlined.
2. Maisie is not correct. She should show an answer of 420,000.
3. A x 100 = PV Chart showing 313,400; B x 10 = PV Chart showing 514,600;
C x 1,000 = PV Chart showing 825,00

Expected

4. B circled, A underlined.
5. Alfie is not correct. He should show an answer of 280,500.
6. A x 100 = 51,500; B x 10 = 504,120; C x 10 = 154,920; D x 1,000 = 5,402,000

Greater Depth

7. B circled, F underlined.
8. Charlie is correct.
9. A x 10 = £220.50; B x 1,000 = 7,200m; C x 10 = 702m; C; D x 1,000 = £2,520