Homework/Extension
Step 2: Multiply 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:

Questions 1, 4 and 7 (Varied Fluency)
Developing Identify whether calculations are true or false when multiplying up to a 2-digit number with up to 2 decimal places by 10, 100 and 1,000.
Expected Identify whether calculations are true or false when 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 Identify whether calculations are true or false when 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.

Questions 2, 5 and 8 (Varied Fluency)
Developing Compare the statements by multiplying up to a 2-digit number with up to 2 decimal places by 10, 100 and 1,000.
Expected Compare the statements by 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 Compare the statements by 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.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Prove whether a statement is correct, by multiplying up to a 2-digit number with up to 2 decimal places by 10, 100 and 1,000.
Expected Prove whether a statement is correct, by multiplying up to a 3-digit number with up to 3 decimal places by 10, 100 and 1,000. Question includes multiplying by a multiple of 10.
Greater Depth Prove whether a statement is correct or incorrect, by multiplying up to a 3-digit number with up to 3 decimal places by 10, 100 and 1,000. Question includes multiplying by multiples of 100 and 1,000.

More Year 6 Decimals resources.

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

Multiply by 10, 100 and 1,000

1. Tick to show whether the calculations are true or false.

		T	F
A.	24 x 1,000 = 2,400	☐	☐
B.	18.2 x 100 = 1,820	☐	☐
C.	13.55 x 1,000 = 13,550	☐	☐
D.	6.3 x 10 = 6.30	☐	☐

D

VF
HW/Ext

2. Solve the calculations to complete the statements using <, > or =.

A.	62.3 x 100	☐	623 x 10
B.	29.5 x 1,000	☐	2.95 x 10
C.	1.7 x 100	☐	17 x 1,000

D

VF
HW/Ext

3. Hafsa and Ben are multiplying by 10, 100 and 1,000.

Hafsa's calculation: 6.4 x 1,000

Ben's Calculation: 6,400 x 10

Hafsa

My calculation will give the greatest answer because I am multiplying by a larger number.

Is she correct?
Prove it.

D

RPS
HW/Ext

Multiply by 10, 100 and 1,000

4. Tick to show whether the calculations are true or false.

		T	F
A.	457 x 1,000 = 457,000	☐	☐
B.	240 x 100 = 2,400	☐	☐
C.	3.05 x 1,000 = 3,500	☐	☐
D.	0.05 x 30 = 1.5	☐	☐

E

VF
HW/Ext

5. Solve the calculations to complete the statements using <, > or =.

A.	623 x 10	☐	345 x 20
B.	0.756 x 1,000	☐	75.6 x 10
C.	130 x 100	☐	720 x 40

E

VF
HW/Ext

6. Steph and Sean are multiplying by 10, 100 and 1,000.

Steph's calculation: 320 x 40	Sean's Calculation: 0.32 x 1,000

Steph

Even though Sean is multiplying his number by 1,000, my answer will still be greater than his.

Is she correct?
Prove it.

E

RPS
HW/Ext

Multiply by 10, 100 and 1,000

7. Tick to show whether the calculations are true or false.

		T	F
A.	70.24 x 200 = 14,048		
B.	64.19 x 1,000 = 6,419		
C.	8.1 x 50 = 405		
D.	45.903 x 100 = 45,930		

GD

VF
HW/Ext

8. Circle all the numbers below which give an answer greater than 6,250 when multiplied by 100.

62.9	129.6	130.02
6.71	60.05	
19.77	82.05	625.5
602.05	180.8	

GD

VF
HW/Ext

9. Chuan and Gabriel are multiplying by 10, 100 and 1,000.

Chuan's calculation: 101.005 x 2,000

Gabriel's Calculation: 1,010.05 x 200

Chuan

My calculation will give an answer greater than Gabriel's because I have multiplied by a larger number.

Is he correct?
Prove it.

GD

RPS
HW/Ext

Homework/Extension
Multiply by 10, 100 and 1,000

Developing

1. True: B and C. False: A and D.
2. =, >, <
3. She is incorrect. Hafsa's calculation gives an answer of 6,400 whereas Ben's calculation gives an answer of 64,000.

Expected

4. True: A and D False: B and C
5. <, =, <
6. She is correct. Steph's calculation gives an answer of 12,600 whereas Sean's calculation gives an answer of 320.

Greater Depth

7. True: A and C. False: B and D
8. 62.9, 129.6, 130.02, 82.05, 625.5, 180.8 and 602.05
9. He is incorrect. Both Chuan and Gabriel's calculations give the same answer. The answers are equal.