

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 a 1-digit or 2-digit number with up to 2 decimal places by 10, 100 and 1,000 (no zeros).

Expected Questions to support multiplying up to a 3-digit number with up to 3 decimal places by 10, 100 and 1,000 (including zeros).

Greater Depth Questions to support multiplying up to a 3-digit number with up to 3 decimal places using known multiplication facts and commutativity.

[More resources](#) which follow the same small steps as White Rose.

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

Multiplying by 10, 100 and 1,000

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

Th	H	T	O	•	Ths	Hths	
			5	•	6	8	
				•			x 10
				•			x 100
				•			x 1,000



VF

Multiplying by 10, 100 and 1,000

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

Th	H	T	O	•	Ths	Hths	
			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

$$2.46 \times \boxed{} = 2,460$$

$$81.54 \times \boxed{} = 815.4$$

$$6.39 \times \boxed{} = 639$$



VF

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

x 10

x 100

x 1,000

$$37.85 \times \boxed{} = 378.5$$

$$4.22 \times \boxed{} = 4,220$$

$$1.97 \times \boxed{} = 197$$



VF

Multiplying by 10, 100 and 1,000

Multiplying by 10, 100 and 1,000

5a. Multiply the following number by 10, 100 and 1,000.

Th	H	T	O	●	Ths	Hths	Thths	
			1	●	3	4	9	
				●				x 10
				●				x 100
				●				x 1,000



VF

5b. Multiply the following number by 10, 100 and 1,000.

Th	H	T	O	●	Ths	Hths	Thths	
			4	●	7	1	8	
				●				x 10
				●				x 100
				●				x 1,000



VF

6a. Select the correct answer.

$$463.79 \times 100 = \boxed{}$$

46,379

4,637.9

463.790



VF

6b. Select the correct answer.

$$825.23 \times 100 = \boxed{}$$

825,230

82,523

825.230



VF

7a. Which calculation is incorrect?

A $490.6 \times 10 = 4,906$

B $4.94 \times 100 = 49.4$

C $0.49 \times 1,000 = 490$



VF

7b. Which calculation is incorrect?

A $87.6 \times 10 = 876$

B $9.454 \times 100 = 954.4$

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

$0.728 \times \boxed{} = 72.8$

$18.54 \times \boxed{} = 185.4$

$5.984 \times \boxed{} = 5,984$



VF

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

x 10

x 100

x 1,000

$35.650 \times \boxed{} = 35,650$

$0.874 \times \boxed{} = 8.74$

$968.48 \times \boxed{} = 96,848$



VF

Multiplying by 10, 100 and 1,000

Multiplying by 10, 100 and 1,000

9a. Multiply the following number by 10, 100 and 1,000.

Th	H	T	O	●	Ths	Hths	Thths	
		7	2	●	9	1	6	
				●				x 10
				●				x 100
				●				x 1,000



VF

9b. Multiply the following number by 10, 100 and 1,000.

Th	H	T	O	●	Ths	Hths	Thths	
		8	5	●	0	6	9	
				●				x 10
				●				x 100
				●				x 1,000



VF

10a. Select the correct answer.

$$963.79 \times 200 = \boxed{}$$

 19,275.8

 192,758

 96,379


VF

10b. Select the correct answer.

$$284.37 \times 20 = \boxed{}$$

 568.74

 56,874

 5,687.4


VF

11a. Which calculation is incorrect?

A $824.68 \times 50 = 41,234$

B $44.40 \times 10 \times 10 = 4,440$

C $4.840 \times 2,000 = 96,800$



VF

11b. Which calculation is incorrect?

A $41.684 \times 200 = 8,336.8$

B $548.34 \times 300 = 5,483.4$

C $97.22 \times 10 \times 100 = 97,220$



VF

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

 x 50

 x 200

 x 1,000

$92.68 \times \boxed{} = 18,536$

$18.54 \times \boxed{} = 927$

$3.983 \times \boxed{} = 3,983$



VF

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

 x 500

 x 100

 x 2,000

$6.050 \times \boxed{} = 605$

$41.93 \times \boxed{} = 20,965$

$7.28 \times \boxed{} = 14,560$



VF

Varied Fluency

Multiplying by 10, 100 and 1,000

Developing

1a. $5.68 \times 10 = 56.8$, $5.68 \times 100 = 568$, $5.68 \times 1,000 = 5,680$

2a. $2.57 \times 100 = 257$

3a. B is incorrect.

4a. $2.46 \times 1,000 = 2,460$, $81.54 \times 10 = 815.4$
and $6.39 \times 100 = 639$.

Expected

5a. $1.349 \times 10 = 13.49$, $1.349 \times 100 = 134.9$,
 $1.349 \times 1,000 = 1,349$

6a. 46,379.

7a. B is incorrect.

8a. $0.728 \times 100 = 72.8$, $18.54 \times 10 = 185.4$,
 $5.984 \times 1,000 = 5,984$.

Greater Depth

9a. $72.916 \times 10 = 729.16$, $72.916 \times 100 =$
 $7,291.6$, $72.916 \times 1,000 = 72,916$

10a. 192,758

11a. C is incorrect.

12a. $92.68 \times 200 = 18,536$, $18.54 \times 50 = 927$,
 $3.983 \times 1,000 = 3,983$

Varied Fluency

Multiplying by 10, 100 and 1,000

Developing

1b. $8.29 \times 10 = 82.9$, $8.29 \times 100 = 829$, $8.29 \times 1,000 = 8,290$

2b. $43.51 \times 100 = 4,351$

3b. C is incorrect.

4b. $37.85 \times 10 = 378.5$, $4.22 \times 1,000 = 4,220$
and $1.97 \times 100 = 197$.

Expected

5b. $4.718 \times 10 = 47.18$, $4.718 \times 100 = 471.8$,
 $4.718 \times 1,000 = 4,718$

6b. 82,523

7b. B is incorrect.

8b. $35.650 \times 1,000 = 35,650$, $0.874 \times 10 =$
 8.74 , $968.48 \times 100 = 96,848$.

Greater Depth

9b. $85.069 \times 10 = 850.69$, $85.069 \times 100 =$
 $8,506.9$, $85.069 \times 1,000 = 85,069$

10b. 5,687.4

11b. B is incorrect.

12b. $6.050 \times 100 = 605$, $41.93 \times 500 =$
 $20,965$, $7.28 \times 2,000 = 14,560$