

Varied Fluency

Step 3: Divide 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 dividing a number with up to 1 decimal place by 10, 100 and 1,000 with some use of zero.

Expected Questions to support dividing a number with up to 2 decimal places by 10, 100 and 1,000 with some use of zero. Some conversion between units of measure included.

Greater Depth Questions to support dividing a number with up to 2 decimal places by multiples of 10, 100 and 1,000 where numbers include zeros. Some questions include dividing by multiples of these numbers. Conversion between units of measure included.

More [Year 6 Decimals](#) resources.

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Divide by 10, 100 and 1,000

Divide by 10, 100 and 1,000

1a. Match the calculation to the correct answer.

A. $325 \div 10$

32.05

B. $3,010 \div 100$

3.1

C. $3,100 \div 1,000$

32.5

D. $3,205 \div 100$

30.1



VF

1b. Match the calculation to the correct answer.

A. $545 \div 10$

5.4

B. $5,400 \div 1,000$

5.5

C. $550 \div 100$

45.05

D. $4,505 \div 100$

54.5



VF

2a. The number below has been divided by 10. What was the original number?

Th	H	T	O	•	†
	●● ●● ●●	● ● ●	●	●	● ●



VF

2b. The number below has been divided by 100. What was the original number?

Th	H	T	O	•	†
		●●● ●●● ●●●	● ● ●	●	● ●



VF

3a. Complete the following calculations.

A. $5,100 \div \square = 5.1$

B. $5,132 \div \square = 51.32$

C. $513 \div \square = 5.13$



VF

3b. Complete the following calculations.

A. $134 \div \square = 1.34$

B. $1,230 \div \square = 1.23$

C. $1.2 \div \square = 0.12$



VF

4a. True or false?

$$5,151 \div 100 = 515.1$$



VF

4b. True or false?

$$456 \div 100 = 4.56$$



VF

Divide by 10, 100 and 1,000

Divide by 10, 100 and 1,000

5a. Match the calculation to the correct answer.

A. $1,238 \div 1,000$

13.288

B. $1,238 \div 10$

123.8

C. $13,288 \div 1,000$

138.2

D. $13,820 \div 100$

1.238



VF

5b. Match the calculation to the correct answer.

A. $362.7 \div 10$

36.277

B. $36,277 \div 1,000$

36.27

C. $37,622 \div 100$

37.622

D. $37,622 \div 1,000$

376.22



VF

6a. The number below has been divided by 100. What was the original number?

H	T	O	.	t	h	th
		●●●●	●		●●	●



VF

6b. The number below has been divided by 10. What was the original number?

H	T	O	.	t	h	th
	●●	●	●		●●	●●



VF

7a. Complete the following calculations.

A. $5,443 \div \square = 54.43$

B. $54,430 \div 1,000 = \square$

C. $\square \div 100 = 54.033$



VF

7b. Complete the following calculations.

A. $12,340 \div \square = 12.34$

B. $12,304 \div 1,000 = \square$

C. $\square \div 100 = 12.034$



VF

8a. Dividing by 1,000 can also be used to convert measurements from one unit to another. The conversion below is correct. True or false?

$1,670\text{g} = 16.7\text{kg}$



VF

8b. Dividing by 1,000 can also be used to convert measurements from one unit to another. The conversion below is correct. True or false?

$5,689\text{m} = 568.9\text{km}$



VF

Divide by 10, 100 and 1,000

Divide by 10, 100 and 1,000

9a. Match the calculations to the correct answer.

A. $699 \div 300$

B. $2,303 \div 100$

C. $46.6 \div 20$

D. $23,030 \div 1,000$



VF

9b. Match the calculations to the correct answer.

A. $3,203 \div 100$

B. $6,400.6 \div 200$

C. $32,030 \div 1,000$

D. $96,009 \div 3,000$



VF

10a. Rosie has made 4,509ml of squash. She drinks 1,312ml.

How many litres of squash is left?



VF

10b. Jack needs to cycle 52,459m for charity. He rests after 24,362m.

How many kilometres has Jack got left to cycle?



VF

11a. Complete the following calculations.

A. $42.304 \times \boxed{} = 84,608$

B. $48,602 \div 200 = \boxed{}$

C. $4,109 \div \boxed{} = 41.09$



VF

11b. Complete the following calculations.

A. $69,909 \div \boxed{} = 23.303$

B. $64,090 \div 1,000 = \boxed{}$

C. $\boxed{} \times 200 = 640.8$



VF

12a. True or false?

$$9,306 \div 300 = 31.02$$



VF

12b. True or false?

$$8,202 \div 2,000 = 41.01$$



VF

Varied Fluency
Divide by 10, 100 and 1,000

Developing

- 1a. **A = 32.5; B = 30.1; C = 3.1; D = 32.05**
2a. **6,312**
3a. **A = 1,000; B = 100; C = 100**
4a. **False. The answer is 51.51.**

Expected

- 5a. **A = 1.238; B = 123.8; C = 13.288;
D = 138.2**
6a. **702.1**
7a. **A = 100; B = 54.43; C = 5,403.3**
8a. **False, it is 1.67kg**

Greater Depth

- 9a. **A = 2.33; B = 23.03; C = 2.33; D = 23.03**
10a. **3.197 litres**
11a. **A = 2,000; B = 243.01; C = 100**
12a. **True**

Varied Fluency
Divide by 10, 100 and 1,000

Developing

- 1b. **A = 54.5; B = 5.4; C = 5.5; D = 45.05**
2b. **7,320**
3b. **A = 100; B = 1,000; C = 10**
4b. **True**

Expected

- 5b. **A = 36.27; B = 36.277; C = 376.22;
D = 37.622**
6b. **410.23**
7b. **A = 1,000; B = 12.304; C = 1,203.4**
8b. **False, it is 5.689km**

Greater Depth

- 9b. **A = 32.03; B = 32.003; C = 32.03;
D = 32.003**
10b. **28.097 kilometres**
11b. **A = 3,000; B = 64.09; C = 3.204**
12b. **False. The answer is 4.101**