

# Yr 5 Decimals, percentages and fractions Unit 1 (5743)

## Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

### Day 1 Numbers with two decimal places Sheet 1

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE / Working at ARE complete Sections A, B and C.

Greater Depth complete Sections B, C and D.

### Day 2 Place value Sheet 1

Working towards ARE / Working at ARE

### Day 2 Place value Sheet 2

Greater Depth

### Day 3 Function machines Sheet 1

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE can use a place value grid (see resources) and digit cards to help.

### Day 3 Function machines Sheet 2

Working at ARE / Greater Depth

Working at ARE can use a place value grid (see resources) and digit cards to help.

# Numbers with two decimal places

## Sheet 1

### Section A

Write  $>$  or  $<$  between each pair of numbers.

1. 3.64 3.46
2. 7.32 2.37
3. 43.21 7.89
4. 0.39 0.93

### Section B

Write a number which belongs between each pair of numbers.

5. 7 and 8
6. 2.1 and 2.2
7. 4.9 and 5
8. 3.45 and 4.45
9. 6.35 and 6.45
10. 8 and 8.1

### Section C

Round each number to the nearest whole number.

11. 6.78
12. 9.23
13. 8.49
14. 7.05
15. 4.58

### Section D

Round each number to the nearest tenth.

16. 0.59
17. 0.32
18. 4.78
19. 3.26
20. 6.84
21. 2.96

## Place Value

### Sheet 1

Complete the following number sentences.

$$2.304 + 0.05 = \boxed{\phantom{000}}$$

$$2.37 + 0.002 = \boxed{\phantom{000}}$$

$$2.074 + 0.5 = \boxed{\phantom{000}}$$

$$23.78 + 0.009 = \boxed{\phantom{000}}$$

$$1.58 + 0.005 = \boxed{\phantom{000}}$$

$$2.305 + 0.02 = \boxed{\phantom{000}}$$

$$78.409 + \boxed{\phantom{000}} = 78.429$$

$$3.075 + \boxed{\phantom{000}} = 3.175$$

$$45.015 + \boxed{\phantom{000}} = 45.215$$

$$\boxed{\phantom{000}} + 0.555 = 2.555$$

Make up your own number sentence to include the number 3.795.

## Place Value

### Sheet 2

Complete the following number sentences.

$$2.304 + 0.05 = \boxed{\phantom{000}}$$

$$2.37 + 0.002 = \boxed{\phantom{000}}$$

$$2.074 + 0.5 = \boxed{\phantom{000}}$$

$$23.78 + \boxed{\phantom{000}} = 23.789$$

$$1.58 + \boxed{\phantom{000}} = 1.585$$

$$2.305 + \boxed{\phantom{000}} = 2.325$$

$$78.409 + \boxed{\phantom{000}} = 78.429$$

$$3.075 + \boxed{\phantom{000}} = 3.175$$

$$45.015 + \boxed{\phantom{000}} = 45.215$$

$$\boxed{\phantom{000}} + 0.05 = 2.555$$

Make up your own number sentence to include the number 3.795.

# Function machines

## Sheet 1

0.36

1.456

0.047

0.06

3.45

0.67

0.345

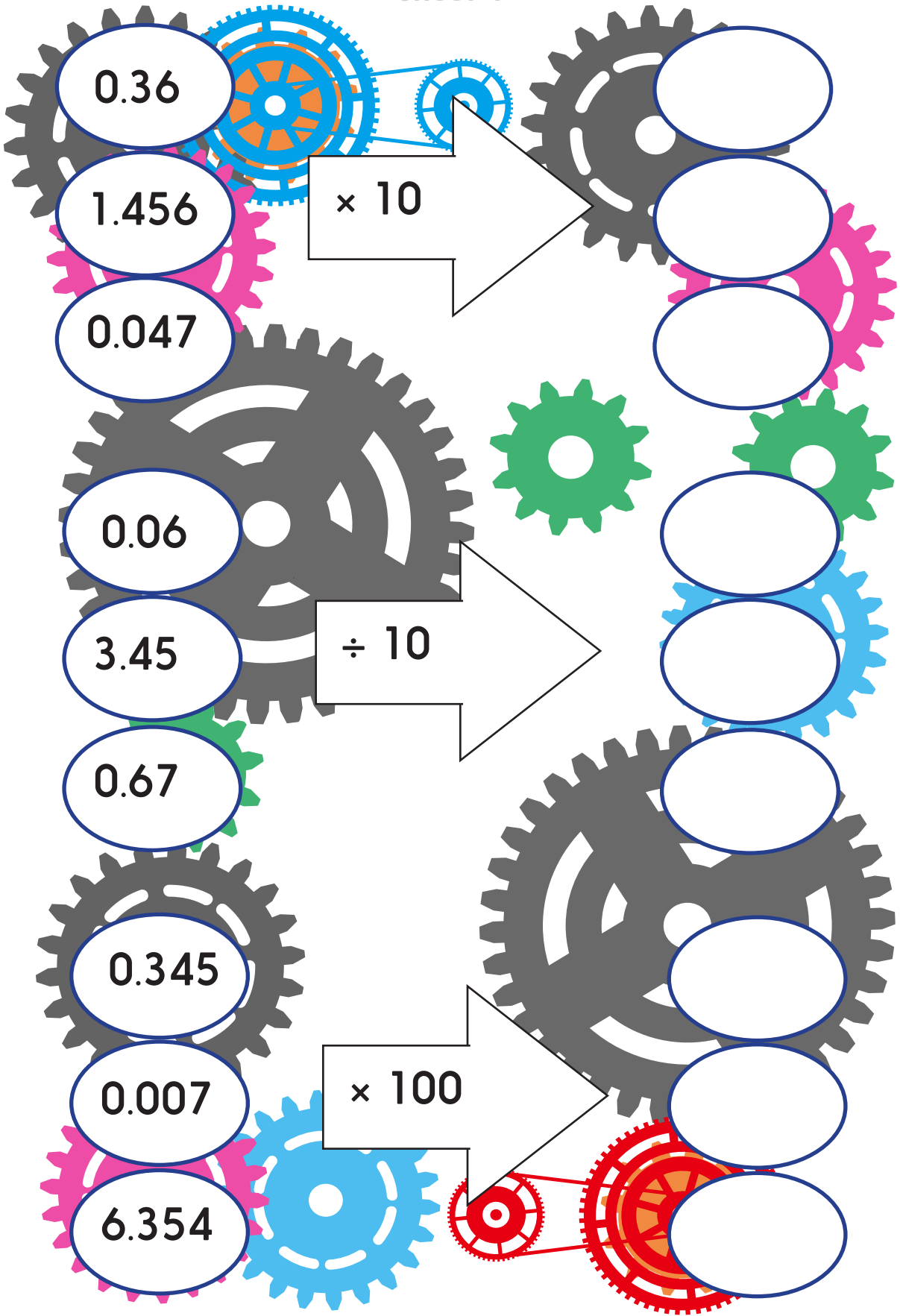
0.007

6.354

$\times 10$

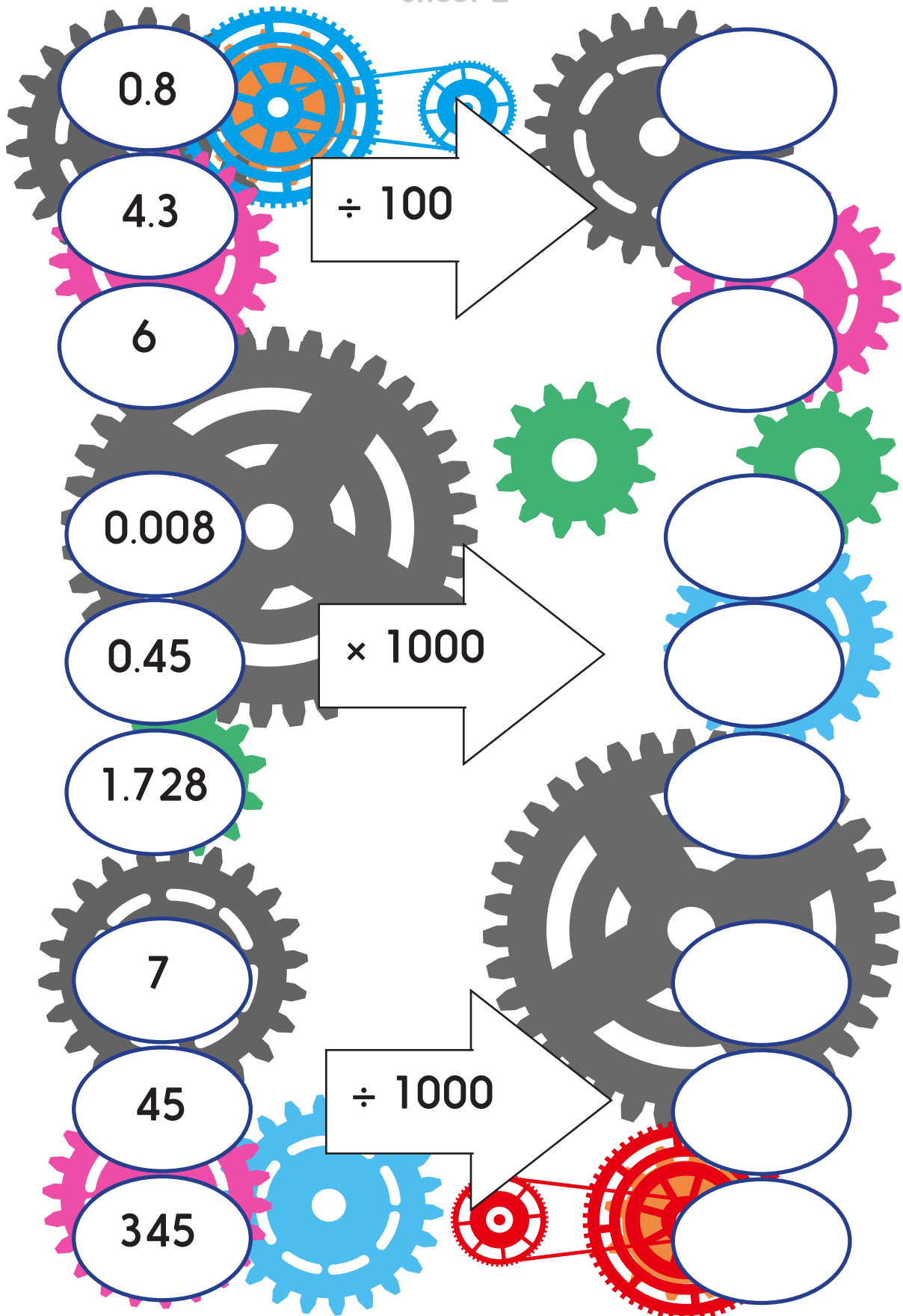
$\div 10$

$\times 100$



# Function machines

## Sheet 2



The diagram features three function machines, each represented by a large grey gear. The first machine at the top has a blue gear mechanism and a white arrow pointing right with the operation  $\div 100$ . The second machine in the middle has a green gear mechanism and a white arrow pointing right with the operation  $\times 1000$ . The third machine at the bottom has a red gear mechanism and a white arrow pointing right with the operation  $\div 1000$ . Each machine has a vertical column of three input numbers on the left and three empty oval output boxes on the right. The background is decorated with various colored gears (blue, pink, green, red) and a decorative border with geometric shapes.

Input	Operation	Output
0.8	$\div 100$	
4.3		
6		
0.008	$\times 1000$	
0.45		
1.728		
7	$\div 1000$	
45		
345		

# Decimals, percentages and fractions

## Answers

### Day 1 Numbers with two decimal places Sheet 1

#### Section A

1.  $3.64 > 3.46$
2.  $7.32 > 2.37$
3.  $43.21 > 7.89$
4.  $0.39 < 0.93$

#### Section B

5. e.g. 7.3, 7.5, 7.62, etc.
6. e.g. 2.13, 2.15, 2.19, etc.
7. e.g. 4.91, 4.95, 4.98, etc.
8. e.g. 3.47, 3.57, 4.25, etc.
9. e.g. 6.39, 6.36, 6.44, etc.
10. e.g. 8.01, 8.05, 8.09, etc.

#### Section C

11.  $6.78 \rightarrow 7$
12.  $9.23 \rightarrow 9$
13.  $8.49 \rightarrow 8$
14.  $7.05 \rightarrow 7$
15.  $4.58 \rightarrow 5$

#### Section D

16.  $0.59 \rightarrow 0.6$
17.  $0.32 \rightarrow 0.3$
18.  $4.78 \rightarrow 4.8$
19.  $3.26 \rightarrow 3.3$
20.  $6.84 \rightarrow 6.8$
21.  $2.96 \rightarrow 3.0$

### Day 2 Place Value Sheet 1

- $2.304 + 0.05 = 2.354$   
 $2.37 + 0.002 = 2.372$   
 $2.074 + 0.5 = 2.574$   
 $23.78 + 0.009 = 23.789$   
 $1.58 + 0.005 = 1.585$   
 $2.305 + 0.02 = 2.325$   
 $78.409 + 0.02 = 78.429$   
 $3.075 + 0.1 = 3.175$   
 $45.015 + 0.2 = 45.215$   
 $2 + 0.555 = 2.555$

# Decimals, percentages and fractions

## Answers

### Day 2 Place Value Sheet 2

$$2.304 + 0.05 = 2.354$$

$$2.37 + 0.002 = 2.372$$

$$2.074 + 0.5 = 2.574$$

$$23.78 + 0.009 = 23.789$$

$$1.58 + 0.005 = 1.585$$

$$2.305 + 0.02 = 2.325$$

$$78.409 + 0.02 = 78.429$$

$$3.075 + 0.1 = 3.175$$

$$45.015 + 0.2 = 45.215$$

$$2.505 + 0.05 = 2.555$$

### Day 3 Function Machines Sheet 1

$$0.36 \times 10 = 3.6$$

$$1.456 \times 10 = 14.56$$

$$0.047 \times 10 = 0.47$$

$$0.06 \div 10 = 0.006$$

$$3.45 \div 10 = 0.345$$

$$0.67 \div 10 = 0.067$$

$$0.345 \times 100 = 34.5$$

$$0.007 \times 100 = 0.7$$

$$6.354 \times 100 = 635.4$$

### Day 3 Function Machines Sheet 2

$$0.8 \div 100 = 0.008$$

$$4.3 \div 100 = 0.043$$

$$6 \div 100 = 0.06$$

$$0.008 \times 1000 = 8$$

$$0.45 \times 1000 = 450$$

$$1.728 \times 1000 = 1728$$

$$7 \div 1000 = 0.007$$

$$45 \div 1000 = 0.045$$

$$345 \div 1000 = 0.345$$