

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.

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

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

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

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

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

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

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

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

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

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

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

Place Value

Sheet 2

Complete the following number sentences.

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

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

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

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

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

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

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

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

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

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

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

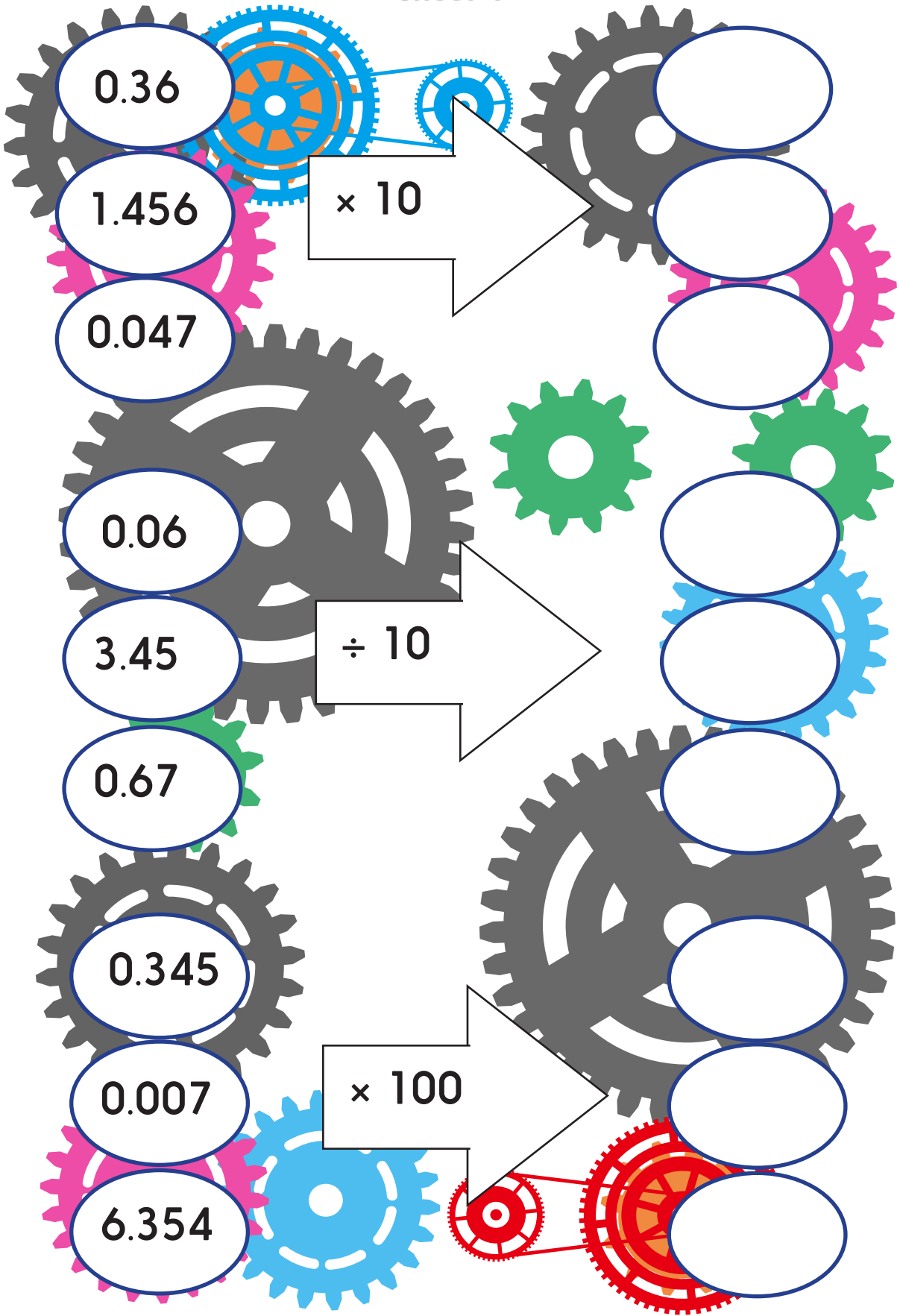
0.007

6.354

$\times 10$

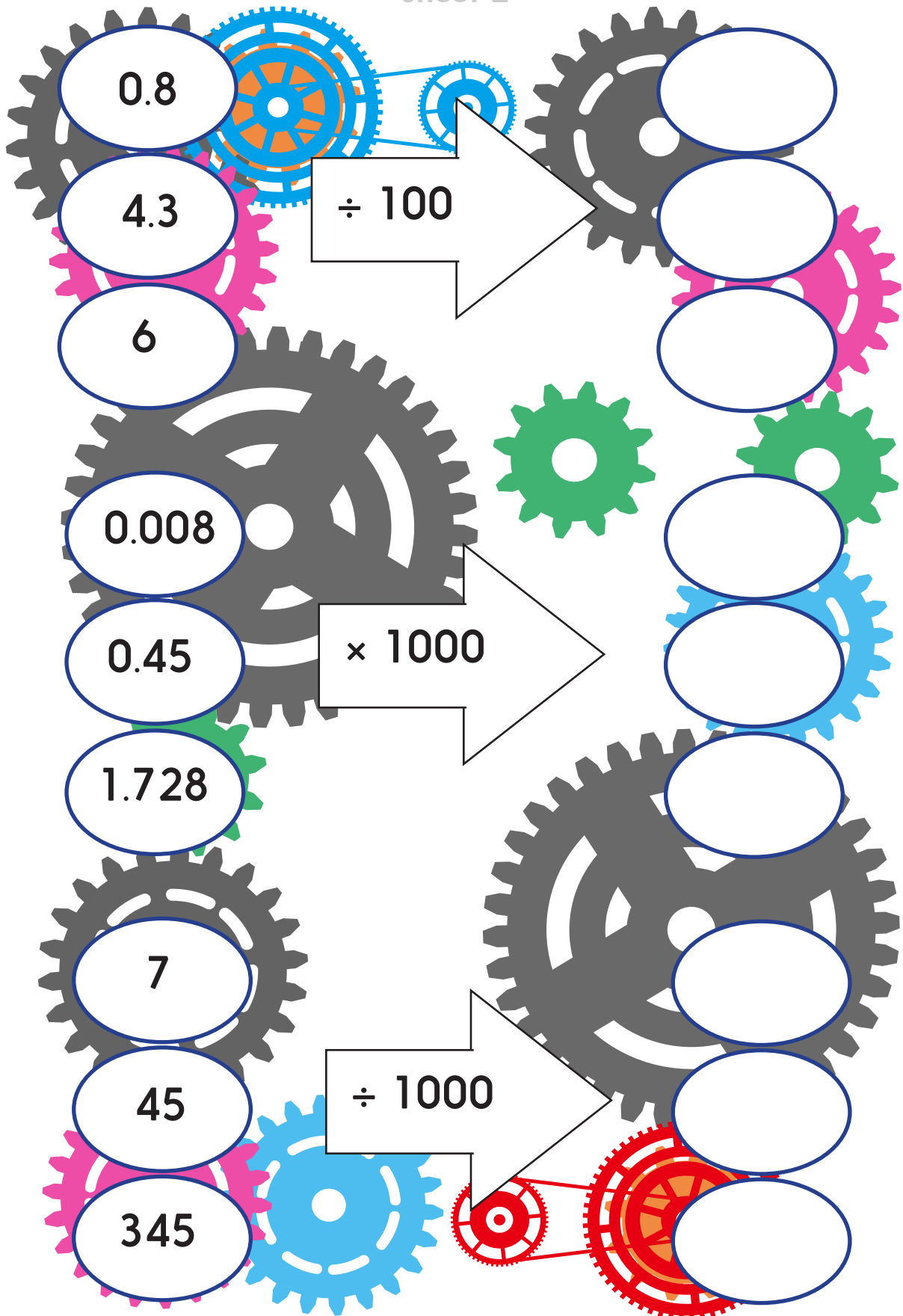
$\div 10$

$\times 100$



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.

Machine	Operation	Input 1	Input 2	Input 3	Output 1	Output 2	Output 3
1	$\div 100$	0.8	4.3	6			
2	$\times 1000$	0.008	0.45	1.728			
3	$\div 1000$	7	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

$$0.8 \div 100 = 0.008$$

$$4.3 \div 100 = 0.043$$

$$6 \div 100 = 0.06$$

$$0.008 \times 1000 = 8$$

$$0.45 \times 1000 = 450$$

$$1.728 \times 1000 = 1728$$

$$7 \div 1000 = 0.007$$

$$45 \div 1000 = 0.045$$

$$345 \div 1000 = 0.345$$