

Yr 5 Decimals and fractions Unit 1 (5413)

Additional teacher instructions for practice sheets

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

Day 1 Place value addition and subtraction Sheet 1

Children working towards ARE do the first 12 questions.

Children working at ARE start at question 4 and do as many as they can.

Greater Depth do questions 11 to 20 then the challenge.

Day 2 Multiplying and dividing by 10 and 100 Sheet 1

Working towards ARE

Day 2 Multiplying and dividing by 10, 100 and 1000 Sheet 2

Working at ARE / Greater Depth

Day 3 Round decimals to the nearest whole number Sheet 1

Working towards ARE

Day 3 Round decimals to the nearest tenth and whole number Sheet 2

Working at ARE / Greater Depth

Place value addition and subtraction

Sheet 1

1. $4 + 0.53$

2. $6.07 + 0.5$

3. $5.78 - 0.08$

4. $8.64 - 0.6$

5. $8.23 + 0.1$

6. $4.56 + 0.01$

7. $8.47 - 0.01$

8. $9.35 - 0.1$

9. $6.21 + 0.2$

10. $9.34 - 0.2$

11. $8.25 + 0.03$

12. $7.38 - 0.03$

13. $9.34 + 0.11$

14. $8.53 - 0.11$

15. $4.73 + 1.01$

16. $8.14 - 1.01$

17. $4.27 + 1.2$

18. $8.75 - 1.02$

19. $3.24 + 1.23$

20. $9.87 - 1.81$

Challenge

Start at 4.36. Add or subtract tenths and hundredths to make an addition and subtraction chain ending with the number 5.02.

Multiplying and dividing by 10 and 100

Sheet 1

1. 34.6×10

2. 34.6×100

3. 6.74×10

4. 6.74×100

5. $483 \div 10$

6. $483 \div 100$

7. $56.1 \div 10$

8. 56.1×100

9. $83.4 \times \boxed{} = 834$

10. $83.4 \div \boxed{} = 8.34$

11. $47.2 \div \boxed{} = 4.72$

12. $47.2 \times \boxed{} = 4720$

Multiplying and dividing by 10, 100 and 1000

Sheet 2

1. 456.8×10

2. $4568 \div 10$

3. 2.76×10

4. $843 \div 100$

5. 47.3×100

6. $783 \div 100$

7. 45.62×100

8. $783.4 \div 10$

9. 45.74×1000

10. $3620 \div 1000$

11. $348.2 \times \boxed{} = 3482$

12. $34,820 \div \boxed{} = 34.82$

Challenge

Complete the following calculations.

$78.43 \times \boxed{} = 7843$

$78.43 \times \boxed{} = 78,430$

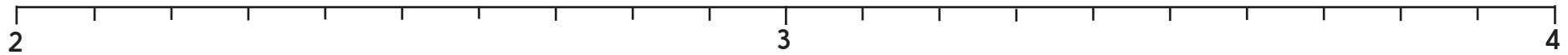
$6450 \div \boxed{} = 64.5$

$6450 \div \boxed{} = 6.45$

Round decimals to the nearest whole number

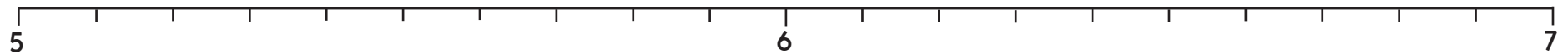
Sheet 1

Mark 2.2, 2.4, 2.6, 2.7, 3.5, 3.1, 3.3 and 3.7 on this number line. Round each number to the nearest whole and record this below.



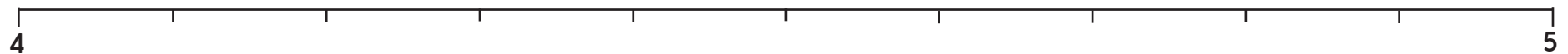
2.2	→	<input type="text"/>	2.4	→	<input type="text"/>	2.6	→	<input type="text"/>	2.7	→	<input type="text"/>
3.5	→	<input type="text"/>	3.1	→	<input type="text"/>	3.3	→	<input type="text"/>	3.7	→	<input type="text"/>

Mark 5.2, 5.35, 5.1, 5.83, 6.4, 6.95, 6.52 and 6.19 on this number line. Round each number to the nearest whole and record this



5.2	→	<input type="text"/>	5.35	→	<input type="text"/>	5.1	→	<input type="text"/>	5.83	→	<input type="text"/>
6.4	→	<input type="text"/>	6.95	→	<input type="text"/>	6.52	→	<input type="text"/>	6.19	→	<input type="text"/>

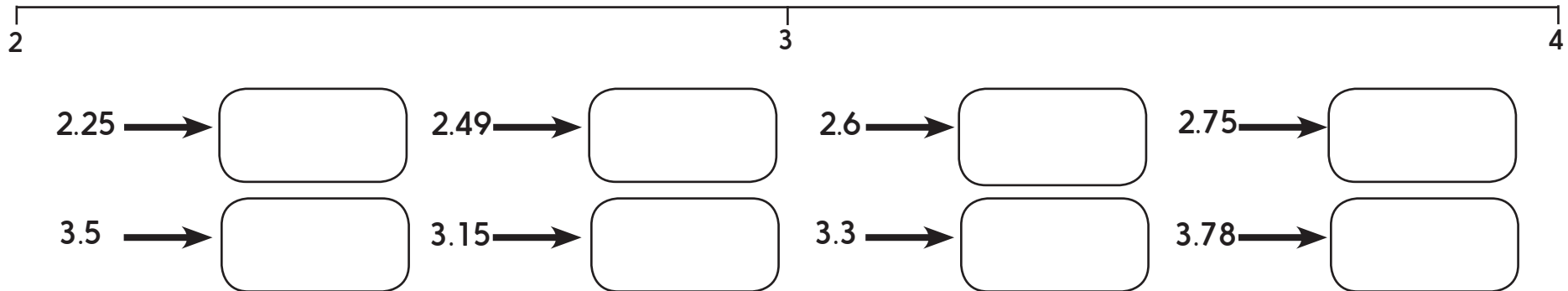
Mark two numbers on this line that round to 4 and two that round to 5.



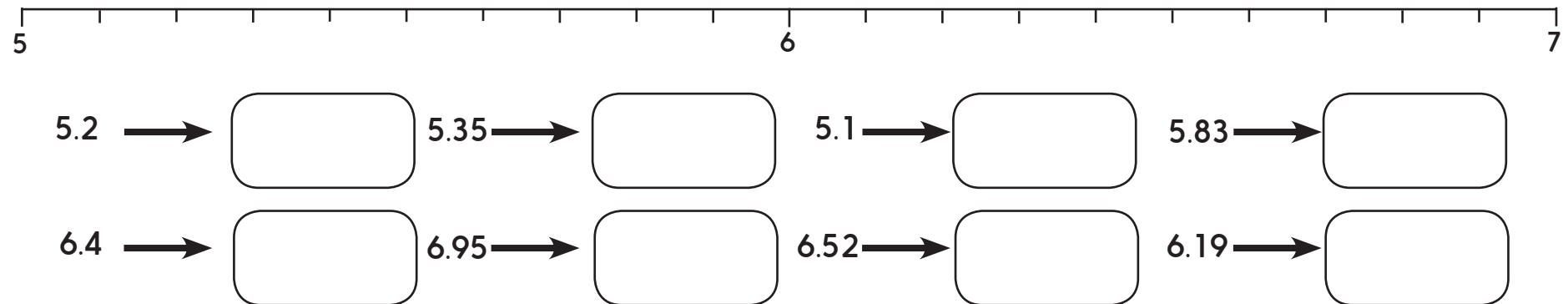
Round decimals to the nearest tenth and whole number

Sheet 2

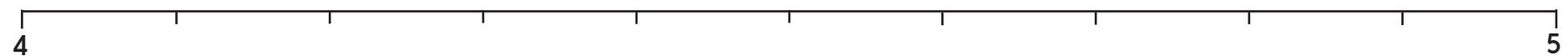
Mark 2.25, 2.49, 2.6, 2.75, 3.5, 3.15, 3.3 and 3.78 on this number line. Round each number to the nearest whole and record below.



Mark 5.2, 5.35, 5.1, 5.83, 6.4, 6.95, 6.52 and 6.19 on this number line. Round each number to the nearest tenth.



Mark two numbers on the line that round to 4 and two that round to 5.



Decimals and fractions

Answers

Day 1 Place value addition and subtraction Sheet 1

- | | | |
|--------------------------|--------------------------|--------------------------|
| 1. $4 + 0.53 = 4.53$ | 2. $6.07 + 0.5 = 6.57$ | 3. $5.78 - 0.08 = 5.7$ |
| 4. $8.64 - 0.6 = 8.04$ | 5. $8.23 + 0.1 = 8.33$ | 6. $4.56 + 0.01 = 4.57$ |
| 7. $8.47 - 0.01 = 8.46$ | 8. $9.35 - 0.1 = 9.25$ | 9. $6.21 + 0.2 = 6.41$ |
| 10. $9.34 - 0.2 = 9.14$ | 11. $8.25 + 0.03 = 8.28$ | 12. $7.38 - 0.03 = 7.35$ |
| 13. $9.34 + 0.11 = 9.45$ | 14. $8.53 - 0.11 = 8.42$ | 15. $4.73 + 1.01 = 5.74$ |
| 16. $8.14 - 1.01 = 7.13$ | 17. $4.27 + 1.2 = 5.47$ | 18. $8.75 - 1.02 = 7.73$ |
| 19. $3.24 + 1.23 = 4.47$ | 20. $9.87 - 1.81 = 8.06$ | |

Challenge

Different answers are possible, e.g. $4.36 + 0.06 = 4.42$, $4.42 - 0.1 = 4.32$, $4.32 + 0.7 = 5.02$

Day 2 Multiplying and dividing by 10 and 100 Sheet 1

- | | | |
|----------------------------|-----------------------------|------------------------------|
| 1. $34.6 \times 10 = 346$ | 2. $34.6 \times 100 = 3460$ | 3. $6.74 \times 10 = 67.4$ |
| 4. $6.74 \times 100 = 674$ | 5. $483 \div 10 = 48.3$ | 6. $483 \div 100 = 4.83$ |
| 7. $56.1 \div 10 = 5.61$ | 8. $56.1 \times 10 = 561$ | 9. $83.4 \times 10 = 834$ |
| 10. $83.4 \div 10 = 8.34$ | 11. $47.2 \div 10 = 4.72$ | 12. $47.2 \times 100 = 4720$ |

Day 2 Multiplying and dividing by 10, 100 and 1000 Sheet 2

- | | | |
|------------------------------|------------------------------|--------------------------------|
| 1. $456.8 \times 10 = 4568$ | 2. $4568 \div 10 = 456.8$ | 3. $2.76 \times 10 = 27.6$ |
| 4. $843 \div 100 = 8.43$ | 5. $47.3 \times 100 = 4730$ | 6. $783 \div 100 = 7.83$ |
| 7. $45.62 \times 100 = 4562$ | 8. $783.4 \div 10 = 78.34$ | 9. $45.74 \times 1000 = 45740$ |
| 10. $3620 \div 1000 = 3.62$ | 11. $348.2 \times 10 = 3482$ | 12. $34.820 \div 1000 = 34.82$ |

Challenge

$78.43 \times 100 = 7843$	$78.43 \times 1000 = 78,430$
$6450 \div 100 = 64.5$	$6450 \div 1000 = 6.45$

Day 3 Sheet 1 Rounding decimals to the nearest whole number

- | | | | |
|---------------------|----------------------|----------------------|----------------------|
| $2.2 \rightarrow 2$ | $2.4 \rightarrow 2$ | $2.6 \rightarrow 3$ | $2.7 \rightarrow 3$ |
| $3.5 \rightarrow 4$ | $3.1 \rightarrow 3$ | $3.3 \rightarrow 3$ | $3.7 \rightarrow 4$ |
| $5.2 \rightarrow 5$ | $5.35 \rightarrow 5$ | $5.1 \rightarrow 5$ | $5.83 \rightarrow 6$ |
| $6.4 \rightarrow 6$ | $6.95 \rightarrow 7$ | $6.52 \rightarrow 7$ | $6.19 \rightarrow 6$ |

Day 3 Sheet 2 Rounding decimals to the nearest tenth and whole number

- | | | | |
|----------------------|----------------------|----------------------|----------------------|
| $2.25 \rightarrow 2$ | $2.49 \rightarrow 2$ | $2.6 \rightarrow 3$ | $2.75 \rightarrow 3$ |
| $3.5 \rightarrow 4$ | $3.15 \rightarrow 3$ | $3.3 \rightarrow 3$ | $3.78 \rightarrow 4$ |
| $5.2 \rightarrow 5$ | $5.35 \rightarrow 5$ | $5.1 \rightarrow 5$ | $5.83 \rightarrow 6$ |
| $6.4 \rightarrow 6$ | $6.95 \rightarrow 7$ | $6.52 \rightarrow 7$ | $6.19 \rightarrow 6$ |