

Year 5/6 Autumn Maths Block Assessments: Decimals

Year 5 Self-Assessment

Objective	Before 😊😐😞	After 😊😐😞
I understand place value in numbers with 2 decimal places.		
I can multiply numbers with 2 decimal places by 10 and by 100 and divide by 10 and 100 to give answers with 2 decimal places.		
I can place 2-place decimal numbers on a number line and compare and order numbers with 2 decimal places.		
I can round to the nearest whole or 0.1.		
I can count on and back in steps of 0.1 and 0.01 and add and subtract multiples of 0.1 or 0.01.		
I can use written addition to add decimals.		

Year 6 Self-Assessment

Objective	Before 😊😐😞	After 😊😐😞
I understand place value in numbers with 3 decimal places.		
I can multiply numbers with 3 decimal places by 10, 100 and 1000 and divide by 10, 100, 1000 to give answers with 3 decimal places.		
I can compare and order numbers with 3 decimal places.		
I can round to the nearest whole, 0.1 or 0.01.		
I can count on and back in steps of 0.01 and 0.001 and add and subtract multiples of 0.1, 0.01 or 0.001.		
I can add 2 or 3 amounts of money or measures using column addition.		

Assessments cover learning in each **Short Block**.
Complete the assessment below after ***all*** learning in that block.

Year 5 [in Y5/6] Autumn Maths Block Assessments: Decimals

1 Complete the number sentences.

$7 + 0.2 + 0.08 = \boxed{}$

$5 + 0.04 = \boxed{}$

$6 + \boxed{} + 0.09 = 6.39$

$4 + 0.2 + \boxed{} = 4.22$

4 marks

2 Solve these:

$3.47 \times 10 = \boxed{}$

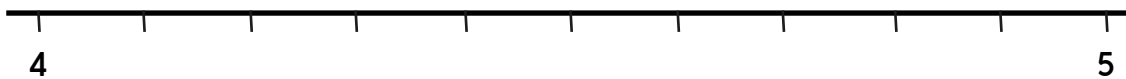
$4.03 \times 100 = \boxed{}$

$679 \div 10 = \boxed{}$

$27 \div 100 = \boxed{}$

4 marks

3 Mark the following numbers on the line: 4.7, 4.25, 4.82



3 marks

4 Round these numbers:

1.49 to the nearest whole number $\boxed{}$

0.78 to the nearest tenth $\boxed{}$

6.25 to the nearest whole number $\boxed{}$

4.34 to the nearest tenth $\boxed{}$

4 marks

5 Solve these:

$0.34 + 0.1 = \boxed{}$

$2.58 - 0.01 = \boxed{}$

$0.17 - 0.01 = \boxed{}$

$0.42 + 0.11 = \boxed{}$

4 marks

Year 5 [in Y5/6] Autumn Maths Block Assessments: Decimals

6 Solve these:

$6.85 - 0.03 = \boxed{}$

$2.22 + 0.6 = \boxed{}$

$2.83 - 0.4 = \boxed{}$

$4.71 + 2.02 = \boxed{}$

4 marks

7 Add these using column addition.

$26.39 + 45.47$

$58.32 + 4.86$

4 marks

8 Solve these problems.

What is **10 times more** than 6.66?

What is the **difference** between 2.85 and 2.95?

What is **0.02 more than** 8.34?

3 marks

Total /30 =

Year 6 [in Y5/6] Autumn Maths Block Assessments: Decimals

1 Complete the number sentences:

$3.261 + 0.03 = \boxed{}$

$0.703 + 0.005 = \boxed{}$

$72.132 + \boxed{} = 72.192$

$4.052 + \boxed{} = 4.852$

4 marks

2 Solve these:

$1.621 \times 100 = \boxed{}$

$0.03 \times 1000 = \boxed{}$

$63.1 \div 10 = \boxed{}$

$72 \div 1000 = \boxed{}$

4 marks

3 Put these sets of numbers in order, **smallest to largest**:

5.673, 6.735, 3.765 _____

4.23, 4.203, 4.321 _____

0.707, 0.077, 0.007 _____

3 marks

4 Round these numbers:

0.58 to the nearest **tenth** $\boxed{}$

1.499 to the nearest **whole number** $\boxed{}$

6.735 to the nearest **hundredth** $\boxed{}$

3 marks

Year 6 [in Y5/6] Autumn Maths Block Assessments: Decimals

5 Solve these:

$0.762 + 0.001 = \boxed{}$

$3.528 - 0.01 = \boxed{}$

$4.885 - 0.003 = \boxed{}$

$7.212 + 0.16 = \boxed{}$

$6.783 - 0.502 = \boxed{}$

$1.703 + 2.02 = \boxed{}$

6 marks

6 Set out and solve these using **column addition**:

$£23.62 + £52.84$

$£15.44 + £12.03 + £8.90$

$24.67\text{m} + 38.22\text{m}$

$0.35\text{m} + 0.84\text{m} + 1.04\text{m}$

8 marks

7 Solve these problems:

Ashraf buys a book for £12.30 and a pen for £9.85.

What is the **total cost** of the book and pen?

How **much more** does the book cost than the pen?

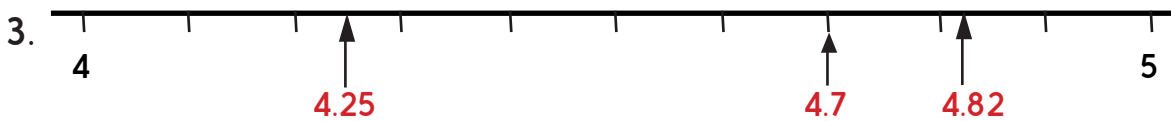
2 marks

Total /30 =

Year 5 [in Y5/6] Autumn Maths Block Assessments: Decimals - **ANSWERS**

1. $7 + 0.2 + 0.08 = 7.28$
 $+ 0.04 = 5.04$
 $6 + 0.3 + 0.09 = 6.39$
 $+ 0.2 + 0.02 = 4.22$

2. $3.47 \times 10 = 34.7$
 $\times 100 = 403$
 $679 \div 10 = 67.9$
 $27 \div 100 = 0.27$



4. 1.49 to the nearest whole number **1**
0.78 to the nearest tenth **0.8**
6.25 to the nearest whole number **6**
4.34 to the nearest tenth **4.3**

5. $0.34 + 0.1 = 0.44$
 $2.58 - 0.01 = 2.57$
 $0.17 - 0.01 = 0.16$
 $0.42 + 0.11 = 0.53$

6. $6.85 - 0.03 = 6.82$
 $2.22 + 0.6 = 2.82$
 $2.83 - 0.4 = 2.43$
 $4.71 + 2.02 = 6.73$

7. $26.39 + 45.47 = 71.86$
 $58.32 + 4.86 = 63.18$

2 marks for each correct answer. If wrong, 1 mark for method, with just one arithmetic error.

8. **66.6** is 10 times more than 6.66.
0.1 is the difference between 2.85 and 2.95
8.36 is 0.02 more than 8.34

Year 6 [in Y5/6] Autumn Maths Block Assessments:
Decimals - ANSWERS

- $3.261 + 0.03 = 3.291$
 $0.703 + 0.005 = 0.708$
 $72.132 + 0.06 = 72.192$
 $4.052 + 0.8 = 4.852$
- $1.621 \times 100 = 162.1$
 $0.03 \times 1000 = 30$
 $63.1 \div 10 = 6.31$
 $72 \div 1000 = 0.072$
- $3.765, 5.673, 6.735$
 $4.203, 4.23, 4.321$
 $0.007, 0.077, 0.707$
- To the nearest tenth: 0.6
To the nearest whole number: 1
To the nearest hundredth: 6.74
- $0.762 + 0.001 = 0.763$
 $3.528 - 0.01 = 3.518$
 $4.885 - 0.003 = 4.882$
 $7.212 + 0.16 = 7.372$
 $6.783 - 0.502 = 6.281$
 $1.703 + 2.02 = 3.723$
- $\pounds 23.62 + \pounds 52.84 = \pounds 76.46$
 $\pounds 15.44 + \pounds 12.03 + \pounds 8.90 = \pounds 36.37$
 $24.67\text{m} + 38.22\text{m} = 62.89\text{m}$
 $0.35\text{m} + 0.84\text{m} + 1.04\text{m} = 2.23\text{m}$
- Total cost of book and pen $\pounds 22.15$
The book costs $\pounds 2.45$ more than the pen.