



## Year 6 Autumn Maths Block Assessments: Decimals and Fractions (A)

<b>Objective</b>	<b>Before</b> 	<b>After</b> 
I can 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 and 1000.		
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 subtract decimals with 1 or 2 decimal places by counting up.		
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 6 Autumn Maths Block Assessments: Decimals and Fractions (A)

**1** Complete the number sentences:

$$3.261 + 0.03 = \square$$

$$0.703 + 0.005 = \square$$

$$72.132 + \square = 72.192$$

$$4.052 + \square = 4.852$$

4 marks

**2** Solve these:

$$1.621 \times 100 = \square$$

$$0.03 \times 1000 = \square$$

$$63.1 \div 10 = \square$$

$$72 \div 1000 = \square$$

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**     

1.499 to the nearest **whole number**     

6.735 to the nearest **hundredth**     

3 marks

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**5** Solve these:

$$0.762 + 0.001 = \square$$

$$3.528 - 0.01 = \square$$

$$4.885 - 0.003 = \square$$

$$7.212 + 0.6 = \square$$

$$6.783 - 0.5 = \square$$

$$1.703 + 0.02 = \square$$

*6 marks*

**6** Solve these by **counting up (Frog)**:

$$8 - 6.78$$

$$5.2 - 0.86$$

$$8.23 - 2.97$$

$$12.05 - 10.74$$

*4 marks*

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

$$£23.62 + £52.84$$

$$£15.44 + £12.03 + £8.90$$

## Year 6 Autumn Maths Block Assessments: Decimals and Fractions (A)

7 Set out and solve these using **column addition** (continued):

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

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

4 marks

8 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 6 Autumn Maths Block Assessments:  
Decimals and Fractions (A) - 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:  $0.6, 1, 6.74$
- $0.762 + 0.001 = 0.763$   
 $3.528 - 0.01 = 3.518$   
 $4.885 - 0.003 = 4.882$   
 $7.212 + 0.6 = 7.812$   
 $6.783 - 0.5 = 6.283$   
 $1.703 + 0.02 = 1.723$
- $8 - 6.78 = 1.22$   
 $5.2 - 0.86 = 4.34$   
 $8.23 - 2.97 = 5.26$   
 $12.05 - 10.74 = 1.31$
- $\pounds 23.62 + \pounds 52.84 = \pounds 76.46$   
 $\pounds 15.44 + \pounds 12.03 + \pounds 8.90 = \pounds 36.37$   
 $24.67\text{m} + 38.22\text{m} = 62.89\text{m}$   
 $0.35\text{m} + 0.84\text{m} + 1.04\text{m} = 2.23\text{m}$
- Total cost of book and pen  $\pounds 22.15$   
The book costs  $\pounds 2.45$  more than the pen.