BRICKWORK mathematics

Post learning assessment
Division Year 6 Answers

Multiplication & Division

1) Answer these division sums

a) 48 ÷ 4 = 12

b) 51 ÷ 3 = 17

c) 6300 ÷ 9 = 700

d) 250 ÷ 50 = 5

e) 2700 ÷ 30 = 90

Ensure that the pupil understands that mental methods are the most efficient method to use here. You may want to compare next to the bus stop method and demonstrate that you still need to use your mental knowledge of times tables.

2) Answer these division sums

a) 12000 ÷ 5 = 2400

b) 2600 ÷ 4 = 650

c) 18 ÷ 4 = 4.5

d) 1800÷ 20 = 90

e) 1600 ÷ 50 = 32

Encourage the use of a variety of mental methods that work for the child to find 4 lots, 5 lots etc quickly.

3) 6735 ÷ 5 =

	1	3	4	7
5	6	1 7	2 3	3 5

You would expect to see a formal written method for this division sum.

1347

4) 1554 ÷ 6 =

	0	2	5	9					
6	1	1 5	3 5	5 4					
							259		

5) 201 = 1407 ÷ 7

		0	2	0	1				
	7	1	1 4	0	7				

6) A group of 5 friends go out for milkshakes and ice creams. The ice creams come to £12.95 altogether and the milkshakes come to £16.25 altogether. The friends decide to share the total bill equally. How much does each person pay?

```
  12.95
+ 16.25
  29.20
   1  1
```

then

```
    05.84
   2 4 2
5 | 2 9. 2 0
```

or

```
      0 2.5 9
    1 2 4
5 | 1 2.9 5
```

```
      03.25
5 | 1 1 1 3
  | 1 6.25
```

then

```
  2.5 9
+3.2 5
  5.8 4
    1
```

Assess here as to whether the errors are from lack of understanding of the question or errors in the use of the calculation. You will want to address these in future lessons throughout the year to consolidate understanding and learning.

£5.84

7) Work out the following calculations and express the remainders as fractions.

a)

		1	5	0	r4/5
	5	7	2 5	4	4

150 4/5

b)

	1	6	0	2	R5/6
6	9	3 6	1	1 7	5

1602 5/6

c)

		1	9	6	r2/4
	4	7	3 8	2 6	2

196 2/4 or 1/2

8) The school is having a party. Paper plates come in packs of 12. The school have sold 245 tickets for the party. How many packs of paper plates will the school need to buy for the party?

	0	2 0	r 5
12	2 4 5	2	5

As there is a remainder of 5, this means that 5 children are without a plate. Therefore, you are excepting pupils to understand that one more pack of plates will be needed using the context of the problem

21 packs

BRICKWORK mathematics

9) 1914 ÷ 22 =

								22 44	
		0	0	8	7			66 88	
2	2	1	9	19 1	4			110 132	
	-	1	7	6	↓			154 176	
			1	5	4			198 220	

The zeroes are there as 22 cannot go into 1 or the 9 in the thousands and hundreds column, therefore the 19 is carried over to make 191. 8 x 22 is 176 so 8 groups can be made. Remainder 15 so this is carried over to make 154. 7 lots of 22 is 154.

87

10) Fill in the next three boxes of prime numbers in this number sequence.

61, 67 , 71, 73, **79** **83** **89** 97

Children should demonstrate knowledge of what they know about prime numbers and multiples of different numbers to rule out certain numbers. Children will then check the remaining numbers to see if they are divisible by 3,7 or 9 .

11 a) 12 - 3 x 2 = **6**

11 b) 20 + 8 ÷ 2 = **24**