

# Methods for Multiplication and Division Homework

1. Below are six short multiplication problems.
  - i. Use rounding to estimate the answer to each one.
  - ii. Use either the grid method, column method or Napier's bones to work out the exact answer for each one.
    - a.  $48 \times 6$
    - b.  $73 \times 4$
    - c.  $614 \times 7$
    - d.  $28 \times 45$
    - e.  $42 \times 18$
    - f.  $173 \times 24$
2. Use the bus stop method to work out the answer to each problem.
  - a.  $570 \div 5$
  - b.  $438 \div 6$
  - c.  $5761 \div 7$
  - d.  $2912 \div 8$
  - e.  $11\,547 \div 9$
3.
  - a. Find the remainder when 473 is divided by 8.
  - b. Find the remainder when 1895 is divided by 6.
4. Use a formal written method to calculate:
  - a.  $740 \div 20$
  - b.  $456 \div 12$
  - c.  $693 \div 11$
  - d.  $4956 \div 14$

5.




- a. On a school trip, 7 buses are used, each of which carry 38 students. Work out the total number of students on the school trip.
  
- b. A rectangular wall measures 27m by 8m. Work out the total area of the wall and state the units.
  
- c. A shop orders 18 phones, each of which costs £385. They then sell these phones at a cost of £510. Work out the profit the shop makes if it sells all 18 phones.

6.

- a. A teacher shares 182 sweets equally amongst 7 students. Work out how many sweets each student receives.
  
- b. A can of paint covers  $8\text{m}^2$  of wall space. Work out how many cans of paint will be needed to cover  $1336\text{m}^2$  of wall space.
  
- c. A minibus can carry 16 people. Work out how many minibuses are needed to transport 560 people.

### Challenge

Design a worded division question which has a remainder.

WWW	Written Methods for Multiplication and Division			
1a, b, c	Short multiplication.			
1d, e, f	Long multiplication.			
2	Short division.			
3	Finding remainders.			
4	Long division.			
5	Multiplication from worded questions.			
6	Division from worded questions.			
Challenge	Design a division question.			
EBI				

# Answers

1.i)

- a) 300
- b) 280
- c) 4200
- d) 1500
- e) 800
- f) 4000

ii)

- a) 288
- b) 292
- c) 4298
- d) 1260
- e) 756
- f) 4152

2.

- a) 114
- b) 73
- c) 823
- d) 364
- e) 1283

3.

- a) 1
- b) 5

4.

- a) 37
- b) 38
- c) 63
- d) 354

5.

- a) 266
- b)  $216\text{m}^2$
- c) £2250

6.

- a) 26
- b) 167
- c) 35