Test - The four operations, order of operations and long division

Year: Year 6 · Duration: 40 minutes · /20

Name:	Date:	**Mark: /20**

Question	1	2	3	4	5	Total
marks	3	4	4	4	5	**20**
Mark						

Show your working.

Question 1 (3 marks)

Question 1 – Long calculations

a. Work out 4 718 × 36. Show your method.
b. Work out 2 912 ÷ 14. Show your method.
c. Work out 1 000 ÷ 16 and give your answer as a decimal.

Question 2 (4 marks)

Question 2 – Order of operations

a. Work out $9 + 6 \times 4$.
b. Work out $(9 + 6) \times 4$.
c. Work out $30 - 18 \div 3 + 2^2$.
d. Put brackets in $2 + 5 \times 3 + 1$ so that the answer is 22.

Question 3 (4 marks)

Question 3 – Factors, multiples and primes

a. Write down all the factors of 40.
b. Write down the highest common factor of 40 and 48.
c. Write down the lowest common multiple of 10 and 15.
d. Which two of these numbers are prime? 37, 39, 49, 51, 59. Show how you know the others are not prime.

Question 4 (4 marks)

Question 4 – Lunch boxes

A school kitchen packs lunch boxes. Each lunch box has a sandwich, a fruit pot and a

drink. A sandwich costs 85p, a fruit pot costs 40p and a drink costs 35p.

a. What is the cost of one lunch box, in pence?
b. What is the cost of 126 lunch boxes? Give the answer in pounds.
c. The kitchen has £150 to spend. How many complete lunch boxes can it make?

Question 5 (5 marks)

Question 5 – The theatre trip

A school takes 215 pupils and 14 adults to the theatre. Tickets cost £18 for a pupil and £24 for an adult. The school hires coaches that seat 48 passengers and cost £420 each.

Item	Number	Cost each
Pupil tickets	215	£18
Adult tickets	14	£24
Coaches	?	£420

a. Work out the cost of the pupil tickets.
b. Work out the cost of the adult tickets.
c. How many coaches are needed? Explain your answer.
d. Work out the total cost of the trip.
e. The cost is shared equally between all 215 pupils. How much does each pupil pay, to the nearest penny?