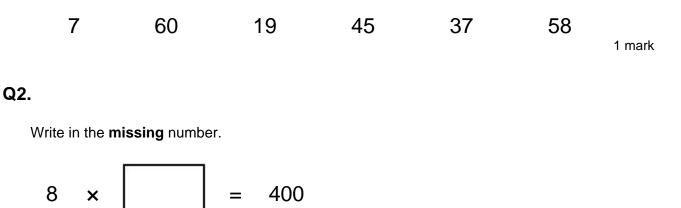
Q1.

Put a ring round two numbers which divide by 5 with no remainder.



Q3.

A box holds 6 eggs.



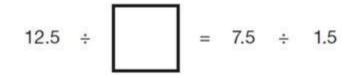
How many boxes are needed to hold 52 eggs?

1 mark

1 mark

## Q4.

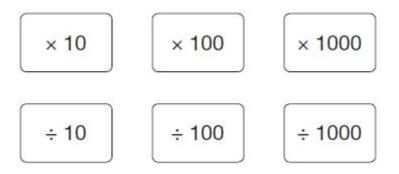
Write the missing number.



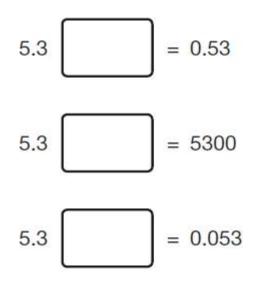
1 mark

### Q5.

Here are six cards.



Use a card to complete each calculation.



2 marks

## Q6.

Put brackets into this expression to make it correct.

$$10^2 \div 10 \div 10 \div 10 \div 10 = 100$$

1 mark

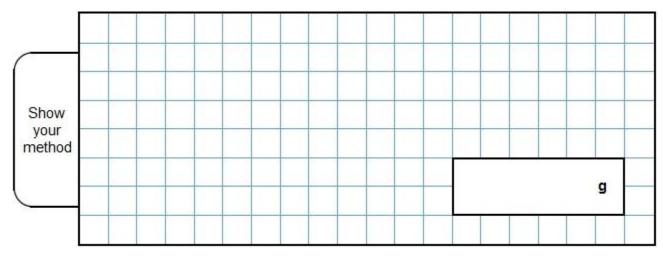
## Q7.

The mass of a 10p coin is 6.5 g.

The mass of a 5p coin is half the mass of a 10p coin.

What is the mass of these six coins altogether?

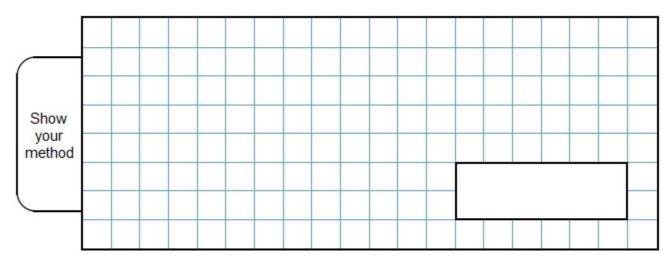




2 marks

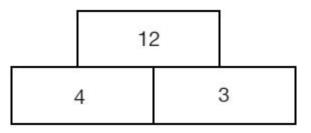
# Q8.

Calculate  $936 \div 36$ 

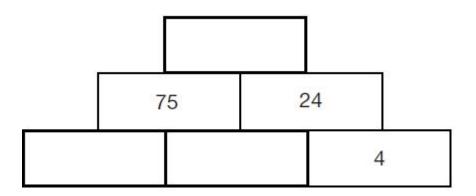


2 marks

In this tower, two numbers are **multiplied** to give the number above.



Write the missing numbers in the tower below to make it correct.



2 marks

1 mark

### Q10.

(a) 1 kilogram of grapes costs £5.80Megan buys 700 grams of grapes.How much does she pay?

(b) 1 kilogram of cheese costs £13.50

Megan buys a piece of cheese costing £2.49



£

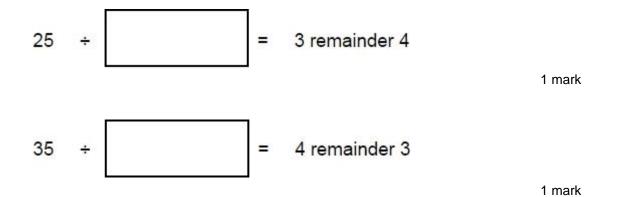
What is the mass of the cheese to the nearest 100 grams?

Show your method							
						g	

2 marks

## Q11.

Write the missing number in each calculation.

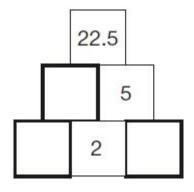


### Q12.

Here is a number pyramid.

The number in a box is the **product** of the two numbers below it.

Write the missing numbers.



2 marks

### Mark schemes

### Q1.

60 and 45

### Q2.

50

[1]

[1]

[1]

### Q3.

9 (boxes)

### Q4.

2.5

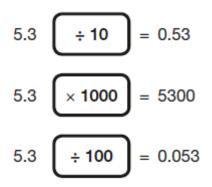
Accept equivalent fractions or decimals

[1]

[2]

## Q5.

Award TWO marks for all three calculations completed correctly, as shown:



If the answer is incorrect, award **ONE** mark for two calculations correct.

Up to 2

### Q6.

Brackets inserted correctly, eg

 $10^{2} \div (10 \div 10) \div (10 \div 10) = 100$  **OR**  $10^{2} \div [(10 \div 10) \div 10)] \div 10 = 100$  **OR**  $(10^{2} \div 10) \div [(10 \div 10) \div 10] = 100$  **OR**  $10^{2} \div \{10 \div [10 \div (10 \div 10)]\} = 100$ 

**OR**   $10^2 \div [10 \div (10 \div 10) \div 10] = 100$  **OR**   $10^2 \div [10 \div 10 \div (10 \div 10)] = 100$ Accept alternative placing of brackets provided the original expression is unchanged and the answer is mathematically correct.

#### Q7.

Award TWO marks for the correct answer of 29.25g.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

• 6.5 ÷ 2 = 3.25 3 × 6.5 = 20.5 (error) 3 × 3.25 = 9.75 20.5 + 9.75

#### OR

•

10p + 5p weigh 6.5g + 3.25g = 9.75 3 of each coin = 9.75 × 3

Answer need not be obtained for the award of **ONE** mark.

Up to 2

[1]

[2]

#### Q8.

Award TWO marks for the correct answer of 26

If the answer is incorrect award **ONE** mark for evidence of appropriate working which contains not more than **ONE** arithmetical error, eg:

Working must be carried through to reach an answer for the award of **ONE** mark.

In all cases, accept follow-through of **ONE** error in working.

Long divisional algorithm

	wrong a	answer
36	936	
	-720	
	216	
	-216	
	0	
		Variatior

Variations on algorithms are acceptable, provided they represent a viable and complete method. **Do not** award any marks if the final answer is missing.

Short division algorithm

Short division methods must be supported by evidence of appropriate carrying figures to indicate use of division algorithm and be a complete method.

Repeated addition/subtraction methods, eg

 $\begin{array}{c} 936 \\ \underline{-360} \\ 576 \\ \underline{-360} \\ 216 \\ \underline{-216} \\ 6 \times 36 \\ \hline \text{wrong answer} \end{array}$ 

**No mark** is awarded for addition/subtraction the wrong number of times.

Factorisation methods, eg:

 $936 \div 9 = 104$ 

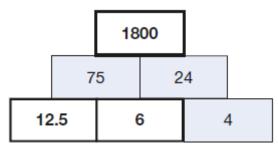
$$104 \div 4 = \text{wrong answer}$$

Up to 2

[2]

#### Q9.

Gives the three correct numbers in their correct positions, ie:



•

Accept unambiguous indication Accept equivalent fractions and decimals, eg:

$$\frac{12\frac{3}{6}}{6}$$
 for 12.5

or

Gives two correct numbers in their correct positions

### Q10.

(a) £4.06

! Money See guidance

(b) 200

1

2

1

[2]

or

Gives an answer of 180 or 184 or 184.4(...)

#### OR

Shows or implies a complete correct method, eg:

- 1000 × 2.49 ÷ 13.50
- $\pounds 13.50 \div \pounds 2.49 = 5.42$

1000 ÷ 5.42

•  $1350 \div 1000 = 1.35$ 

249 ÷ 1.35

- £1.35 = 100
  - $\pounds 2.70 = 200$ 
    - Inconsistent units
      Within an otherwise correct method, condone
      eg, for 1 mark accept:
    - (£)13.50 ÷ 1000 = 1.35(p) (£)2.49 ÷ 1.35(p)
    - (£)13.50 ÷ 1000 = (£)0.0135
      249(p) ÷ (£)0.0135

[3]

[2]

1

1

1

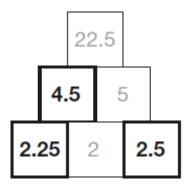
#### Q11.

(a) 7

(b) 8

#### Q12.

Award TWO marks for three numbers correctly placed.



If the answer is incorrect award **ONE** mark for two numbers correctly placed.

**Commentary:** This question involves multiplying and dividing decimals where the answer has up to two decimal places (6F9).

Up to 2