

## Mark schemes

**Q1.**

Award **TWO** marks for a correct answer of 275

**OR**

an answer in the range from 270 to 280 inclusive.

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

- $150 + 175 = 325$   
 $600 - 325 =$

**OR**

- $600 - 150 - 165$  (*error*) =

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

*Accept a reading in the range 170 to 180 ml inclusive for the second jug.*

*At least one of the measurements must be correct for the award of **ONE** mark.*

Up to 2m

[2]

**Q2.**

Award **TWO** marks for the correct answer of 1,048

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

- $1,793 + 8,728 = 10,521$   
 $10,521 - 9,473$

**OR**

- $9,473 - 8,728 = 745$   
 $1,793 - 745$

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

Up to 2m

[2]

**Q3.**

Award **TWO** marks for the correct answer of 750

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

- $450 \times 2 = 900$   
 $2,400 - 900 = 1,500$

$$1,500 \div 2$$

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

Up to 2m

[2]

**Q4.**

50p 20p 10p 10p 10p

Coins may be given in any order.

U1

[1]

**Q5.**

6

1

8

1  
U1

[2]

**Q6.**

Award **TWO** marks for the correct answer of 80p **OR** £0.80

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

■  $£2.00 - £0.05 = £1.95$

$$£5.00 - £2.25 = £2.75$$

$$£2.75 - £1.95 = \text{wrong answer}$$

Accept for **ONE** mark £80 **OR** £80p **OR** 0.80p as evidence of appropriate working.

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

Up to 2m

[2]

**Q7.**

(a) Two numbers from the sequence that total 96, eg:

43 **AND** 53

**OR**

23 **AND** 73

*Numbers may be given in either order.  
Accept negative numbers, eg -7 AND 103*

1

- (b) An explanation that recognises that adding three numbers ending in 3 will produce a number ending in a 9 eg:
- 'They all end in 3 so adding three will give a number ending in 9'
  - 'If you add three numbers in the sequence you will always get a number ending in 9'
  - 'All the numbers are odd and 96 is even'
- Do not accept vague or incomplete explanations, eg:**
- 'All the numbers end in three'
  - 'It only works with two numbers'
  - '3 odds add to make an even'

U1

[2]

**Q8.**

(a)

- |   |    |   |    |
|---|----|---|----|
| A | 50 | B | 15 |
| C | 20 | D | 25 |

1

(b)

- |   |     |   |    |
|---|-----|---|----|
| A | 110 | B | 45 |
| C | 50  | D | 55 |

U1

[2]

**Q9.**

Any two numbers which total 40, eg:

- 10 and 30
- 20 and 20
- 0 and 40
- 1 and 39

*Accept negative numbers and decimals.*

[1]

**Q10.**

Award **TWO** marks for the correct answer of 75

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg:

- $30 \times 50 = 1500$   
 $1500 \div 20$

**OR**

- $30 \times 50p = \text{£}15$   
5 20p coins make  $\text{£}1$   
 $5 \times 15$

**OR**

- $50p \div 20p = 2.5$   
 $30 \times 2.5$

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

Up to 2

[2]

**Q11.**

- (a) 40p

1

- (b) Award **TWO** marks for the correct answer of 65p **OR**  $\text{£}0.65$

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

$$120 + 35 = 155$$

$$155 - 90 = \text{wrong answer}$$

*Accept for **ONE** mark  $\text{£}65$  **OR**  $\text{£}65p$  **OR**  $0.65p$  as evidence of appropriate working.*

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

Up to 2

[3]

**Q12.**

Award **TWO** marks for the correct answer of 6

*Accept for **ONE** mark an answer of  $\text{£}6$  as evidence of appropriate working.*

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

$$2.50 \times 2 = 5$$

$$14 - 5 = 9$$

$$9 \div 1.50 = \text{wrong answer}$$

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

**OR**

$$14 - 2.50 - 2.50 = 9$$

$$1.50 \times \text{wrong number} = 9$$

Up to 2

[2]

**Q13.**

(a) 5

1

(b) 15

*If the answer is incorrect, award the mark if the answers to (a) and (b) total 20*

U1

[2]

**Q14.**

$$18 + 16 + 6$$

**OR**

$$18 + 14 + 8$$

**OR**

$$18 + 12 + 10$$

**OR**

$$16 + 14 + 10$$

*Numbers may be given in any order.*

[1]

**Q15.**

(a) £4.79

1

(b) Award **TWO** marks for the correct answer of £2.35

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

$$2.50 \div 2 = 1.25$$

$$1.25 + 1.40 = 2.65$$

$$5 - 2.65 = \text{wrong answer}$$

Accept for **ONE** mark £235 **OR** £235p as evidence of appropriate working.

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

Up to 2

[3]

**Q16.**

(a) 7

Accept 7 r 55p.

**Do not** accept 7 r 55

1

(b) Award **TWO** marks for the correct answer of £4.11

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg

$$4 \times 3.79 = 15.16$$

$$8.95 + 15.16 = 24.11$$

$$24.11 - 20$$

Accept for **ONE** mark £411 **OR** £411p as evidence of appropriate method.

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

Up to 2

[3]

**Q17.**

Award **TWO** marks for the correct answer of 76

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg

$$44 \times 2 = 88$$

$$88 - 12$$

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

Up to 2

[2]

**Q18.**

Award **TWO** marks for the correct answer of 55p **OR** £0.55

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg  $8.75 - 7.65 = 1.10$

$$1.10 \div 2 = \text{wrong answer}$$

Accept: for **ONE** mark £55 **OR** £55p **OR** 0.55p as evidence of appropriate working.

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

Up to 2

[2]

**Q19.**

(a)

$$20 \text{ } \textcircled{+} \text{ } 8 = 4 \text{ } \textcircled{\times} \text{ } 7$$

1

(b)

$$21 \text{ } \textcircled{\div} \text{ } 3 = 15 \text{ } \textcircled{-} \text{ } 8$$

1

[2]

**Q20.**

(a) 42

1

(b) 11

1

[2]

**Q21.**

Accept an explanation which recognises that consecutive or adjoining shaded numbers have a difference of 9, eg

- 'You are adding 9 each time';
- 'The numbers are going up by 9 each time';
- 'The numbers go down by 9 each time';
- 'The rule is to add 10 and subtract 1';
- 'It is going down one in the units and up one in the tens'.

**Do not** accept an explanation that is vague or arbitrary, eg

- 'The numbers get bigger';
- 'The numbers get smaller';
- 'The rule is to go down 116, 125, 134, 143';
- 'The units are going down and tens are going up'.

**Do not** accept:

- 'The numbers are multiples of 9'.

U1

[1]

**Q22.**

4 written in the middle row box

**and**

800 written in the bottom right-hand box

**Both** numbers must be correct for the award of the mark.

[1]

**Q23.**

Digits written in boxes as shown:

$$4\boxed{6}4 + 38\boxed{7} = 851$$

[1]

**Q24.**

Any two numbers such that Sara's number is thirteen greater than Leon's, eg

Leon 10 Sara 23

*Accept decimals, fractions, negative numbers and zero.*

[1]

**Q25.**

(a) width = 22

1

(b) height = 17

*If the correct answers are transposed, award the mark for 16b only.*

1

[2]

**Q26.**

(a) £4.30

*Accept 4.30 OR £4.30 OR 430p OR £4.30 OR 430 OR £4.30p.*

1

(b) (small) Mushroom AND (medium) Ham

OR (small) Tuna AND (medium) Salami

*Both must be correct.*

*Accept other unambiguous indications, eg:*

- **£4.50, £5.50**
- **£4.25, £5.75**
- **prices ringed in table**

1

[2]

**Q27.**

Explanation which recognises that the largest two-digit number (99) added to itself only gives a three-digit number (198), eg

- 'Because if you do 99 + 99 you only get a three-digit number';

- 'If you add any 2 two-digit numbers, you will get a three-digit number or a two-digit number'.

*No mark is awarded for circling the 'Yes' alone.*

**Do not** accept vague or arbitrary explanations such as

- 'The numbers aren't big enough';
- 'It doesn't work'.

*If 'No' is circled but a correct unambiguous explanation is given then award the mark.*

[1]