

Mark schemes

Q1.

(a) 11 written in the first box, as shown:

11	25	53	
----	----	----	--

1

(b) 109 written in the last box, as shown:

	25	53	109
--	----	----	-----

1

[2]

Q2.

Award **TWO** marks for the correct answer of 290

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

- | | | | | | | | | |
|---|-------------------------------------|-----|-----|-----|-----|-----|-----|------------|
| ■ | 110 | 140 | 170 | 200 | 230 | 260 | 290 | 320 |
| | <i>Not spotting closest number.</i> | | | | | | | |

OR

- | | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|------------|
| ■ | 110 | 140 | 170 | 190 | 220 | 250 | 280 | 310 |
| | <i>One step size incorrect (170 to 190).</i> | | | | | | | |

OR

- | | |
|---|------------------|
| ■ | $300 + 20 = 320$ |
|---|------------------|

$320 - 30 =$ wrong answer

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

Up to 2
U1

[2]

Q3.

(a) 4

! Algebra

1

(b) 0

1

[2]

Q4.

(a) £3.05

Refer to the additional guidance on marking answers involving money.

1

(b) Award **TWO** marks for the correct answer of 6

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

- $£5 - £1.25 = £3.75$
 $£3.75 \div 60p = 6.25$
7 colours (rounded incorrectly)

OR

- $£5 - £1.25 = £4.75$ (error)
 $475 \div 60 =$

OR

- $6 \times 60 = 360$
 $£3.60 + £1.25 = £4.85$
7 colours (rounded incorrectly)

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

Up to 2m

[3]

Q5.

17

U1

[1]

Q6.

Award **TWO** marks for the correct answer of 2.25

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

algebraic manipulation to reach

$$18 = 8t$$

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

Up to 2

[2]

Q7.

Award **TWO** marks for the correct answer of 4.5

OR $4\frac{1}{2}$ **OR** $\frac{9}{2}$ **OR** $\frac{27}{6}$.

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

$$x = 27 \div 6$$

Accept any equivalent to $\frac{1}{2}$

Calculation need not be performed for the award of **ONE** mark,
but the method shown must be capable of producing the correct answer.

Accept for the award of **ONE** mark evidence of trial and improvement leading to an incorrect answer, even though this

is an inappropriate method of solving linear equations, eg:

$$6 \times 5 - 27 = 3$$

$$6 \times 4 - 27 = -3$$

$x =$ incorrect answer between 4 and 5

Up to 2

[2]

Q8.

- (a) Award **TWO** marks for correct answer of 120 OR 95
(if book is assumed to have two covers)

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

- $435 - 75 = 360$
 $360 \div 3$

- $435 - 150 = 285$
 $285 \div 3$

Up to 2

- (b) Award **TWO** marks for correct algebraic expression equivalent to $t = 3n + 75$, OR $t = 3n + 150$, eg:

- $t = 3 \times n + 75$

- $t = 75 + n3$

If expression is incorrect award **ONE** mark for evidence of $3 \times n$, eg:

- $3n + 750$

OR evidence of addition of 75 (or 150) to an expression involving n , eg:

- $n + 75$

No mark is awarded for the expression in words.

Accept inclusion of 'p' in expression, eg:

- $3p \times n + 75p$

Accept 'use of N' as well as n .

Answer to 20b must be consistent with answer to 20a, ie if 2 covers are assumed in 20a, they should be assumed in 20b.

Up to 2

[4]

Q9.

Both numbers correct as shown:

$$b = \boxed{10} \times a - \boxed{1}$$

[1]