Year 4 optional SAT mark scheme paper A

0 min
0 marks

1. 80 **OR** 90 **OR** 50 — 0

[0]

2. Numbers written in order as shown: — 1

largest				smallest
565	450	405	209	124

__All five__ numbers must be in the correct order for the award of the mark.

Accept any other clear way of indicating the correct answers, such as 'matching'.

__Do not__ accept any number repeated in another circle.

Transcription errors are acceptable only if they do not result in a wrongly ordered list.

[1]

3. Number sentences ticked and crossed as shown: — 1

8 × 2 = 8 + 8	✓
3 × 10 = 3 + 3 + 3	✓
5 × 4 = 5 + 5 + 5 + 5	✓

__All three__ number sentences must be correctly ticked and crossed for the award of the mark.

Accept ticks and crosses placed elsewhere, provided it is clear which number sentence they refer to.

Accept any other clear way of indicating the number sentences, such as 'Y' and 'N'.

[1]

4. B — 1

Accept any other clear indication, such as the correct reflection ticked or circled.

[1]

5. 1046 1

[1]

6. 65 1

[1]

7. 184 1

[1]

8. Award **TWO** marks for three letters correctly placed in the regions as shown: Up to 2

	curved lines	no straight lines
straight lines	P	T N
no straight lines	S	

All three *letters must be placed correctly for both marks to be awarded.*

Do not *accept a letter repeated in different regions.*

Do not *penalise answers which offer additional letters (other than N, P and T) on the diagram, whether correctly placed or not.*

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

[2]

9. 73 1

[1]

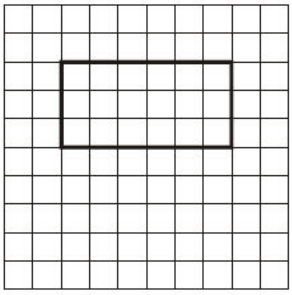
10. £2.40 1

Accept £2.40p ***OR*** *£2 40*

Do not *accept £240* ***OR*** *£240p* ***OR*** *£2.4*

[1]

11. Any rectangle drawn on the grid whose longer sides are 6cm, eg 1



Accept slight inaccuracies in drawing, provided the intention is clear.

***Do not** accept a 6cm square.*

[1]

12. 24 1

[1]

13. (a) 5 1

(b) James **AND** Sasha 1

Accept names in either order.

Accept any reasonable spellings provided the intention is clear.

[2]

14. $60 \div 10 = 6$ 1

OR

$60 \div 6 = 10$

OR

$6 = 60 \div 10$

OR

$10 = 60 \div 6$

Award the mark if more than one correct answer is given.

[1]

15. Boxes completed as shown: 1

U1

8 cubes	and	7 cubes

Accept reverse order.

[1]

16. Two sentences ticked as shown: 1

Adam's pencil is **12 centimetres** long.	✓
Leah is **12 metres** tall.	
Jake's glass holds **12 litres** of milk.	
Kate's younger sister weights **12 kilograms**.	✓

Both *answers must be ticked for the award of the mark..*

Accept any other clear way of indicating the correct sentences, such as 'yes'.

[1]

17. A **new** line drawn which measures between 8.3cm and 8.7cm inclusive. 1

Do not *accept a 3cm extension to the line given.*

[1]

18. 34 1

[1]

19. Boxes completed as shown: 1

52	>	17
19	<	91
50	>	34

All three *signs must be correct for the award of the mark.*

[1]

20. 613 **OR** 704 **OR** 825 1

Award the mark if no numbers are circled, provided a correct total is given.

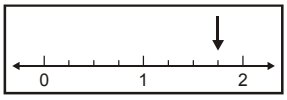
Award the mark providing at least one of the three correct totals is given irrespective of which numbers are circled.

[1]

21. 45 1

[1]

22. An arrow drawn on the number line as shown: 1



Accept any other clear way of indicating $1\frac{3}{4}$ on the number line as long as the intention is clear.
Accept slight inaccuracies, provided the intention is clear.

[1]

23. Award **TWO** marks for the correct answer of £2.45 Up to 2

*Accept £2.45p **OR** £2 45*

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

35 × 7 = wrong answer

OR

30 × 7 = 210
5 × 7 = 35
210 + 35 = wrong answer

OR

award **ONE** mark for £245 **OR** £245p **OR** £24.5 as evidence of appropriate working.

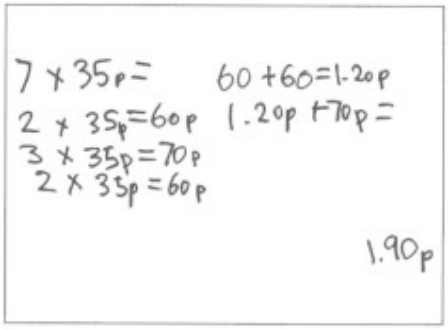
*An answer must be given for the award of **ONE** mark.*

[2]

Examples of responses

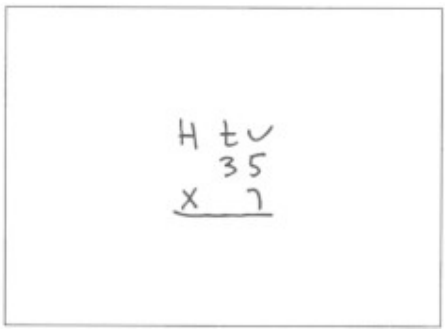
Bashir's working out shows his intention to calculate 35p multiplied by 7. To simplify the calculation he has broken it down into three separate multiplications then added the three answers together. Although he made an error in calculating two lots then three lots of 35p, his method is complete and correct since he gave an answer. Bashir can be awarded the mark. Adam has also used multiplication but has applied a vertical algorithm. However, he has made an error in place value by omitting the zero from 7 × 30 and calculating this as 21. His method is, therefore, not correct. Adam cannot be awarded the mark.

Bashir



1 mark

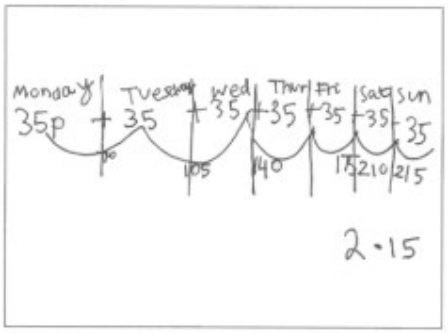
Adam



0 marks

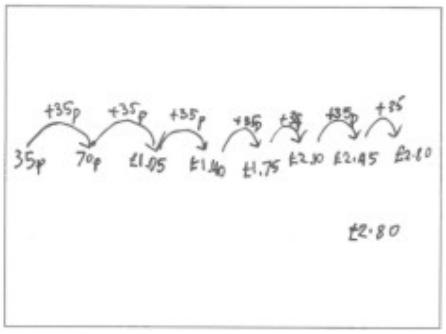
Jay has shown in her repeated addition method that she recognised the need to calculate seven lots of 35p. She made an error in the final addition by adding 35p to 210p incorrectly but has correctly converted her answer of 215p to £2.15. Her method is complete and correct. Jay can be awarded the mark. Bob's working shows that he understood that he needed to count on 35p seven times but he made an error starting at 35p instead of at 0p and ended up calculating (allowing for a later error) eight lots of 35p. His method is not correct. Bob cannot be awarded the mark.

Jay



1 mark

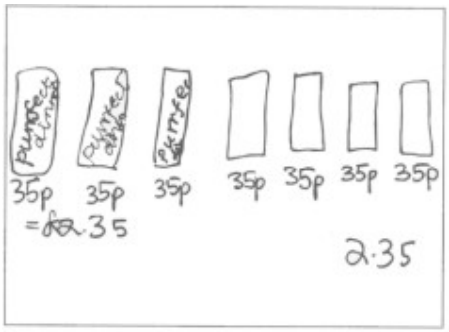
Bob



0 marks

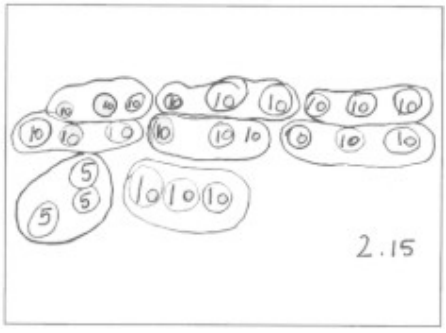
Carol has drawn seven tins of cat food and written 35p below each one. We can assume from her answer of £2.35 that she added 35p seven times. Although she made an error in this calculation, her method is complete and correct. Carol can be awarded the mark. It is likely that Tony also recognised the need to add seven lots of 35p since his working shows his attempt to partition the 35p amounts into groups of 10p and 5p. He has successfully recorded seven lots of 30p but has only recorded three lots of 5p. His method is not complete or correct. Tony cannot be awarded the mark.

Carol



1 mark

Tony



0 marks

24. south-east 1

Accept SE.

Accept an unambiguous indication on the spinner.

[1]

25. Two fractions circled as shown: 1

$\frac{1}{8}$ $\frac{6}{10}$ $\frac{5}{8}$ $\frac{3}{10}$

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

Accept any other clear way of indicating the two correct fractions, such as underlining or ticking.

[1]

26. An explanation which compares prices and which recognises that the 1
'half price' cost is less than the '3 for 2' cost, eg U1

- 'The half price offer costs 40p, the other offer costs 60p so the half price one is 20p cheaper';
- 'I know because 40p is less than 60p';
- 'The half price offer costs 20p less'.

(Although the child has not stated the cost of each offer, we can assume that the child must have calculated them to reach this conclusion.)

Do not *award the mark for ticking the 'Half price' box alone.*

Do not *accept an explanation which compares pencils rather than prices, eg*

- *'I think because there are more pencils in the half price than the 3 for 2';*
- *'Because you only get 2 in a packet and so the half price one is better'.*

Also accept:

- Half price | 40 p | ✓ 3 for 2 | 60 p |

The prices must be stated **AND** the 'half price' offer indicated. (Although this is not the preferred form of response, the child has clearly communicated their understanding.)

Do not *accept an explanation which compares prices incorrectly, eg*

- *'Because the half price ones are 40p and the 3 for 2 ones are 90p'*
  (This shows that the child has not understood the concept of 3 for 2).

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

- *'One pack of pencils costs less'.*

Award *the mark if the '3 for 2' box is ticked* ***OR*** *neither box is ticked provided a correct unambiguous explanation is given.*

[1]

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

27. Table completed as shown: 1

	property of shape	
	is an octagon	has at least 1 right angle
shape **A**	✗	✓
shape **B**	✓	✗
shape **C**	✗	✗
shape **D**	✓	✓

All three *answers must be correct for the award of the mark.*

Accept any other clear way of indicating the properties, such as 'Y' and 'N'.

[1]

28. 1
U1

1	3	7	+	6	3	=	200

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

[1]

29. 5 1

Do not *accept* $\frac{1}{4}$

Accept five stickers indicated on the drawing, provided it is clear they are ***rabbit*** *stickers, eg*

R	R	R	R	R

[1]

30. 5 1

Accept .625 ***OR*** *0.625* ***OR*** $\frac{5}{8}$ ***OR*** *6 remainder 5* ***OR*** *6.625* ***OR*** $6\frac{5}{8}$

Do not *accept 48 remainder 5*

[1]

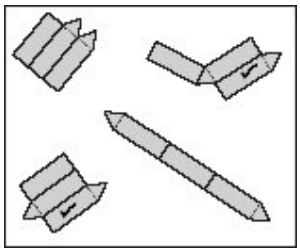
31. Answer in the range 8 to 9 inclusive. 1

[1]

32. 24 1

[1]

33. Two nets ticked as shown: 1



Both *nets must be ticked for the award of the mark.*

Accept any other clear way of indicating the two correct nets, such as circling.

[1]