

Mark scheme

Matchday SATs Pack. Practice paper written by SATs Arcade. Not an official STA paper.

The answers given are examples, not a complete list. Accept any answer that means the same and is supported by the text or the working.

- Print the paper. Choose a quiet table with no phone, no TV and no brothers or sisters chatting.
- Set a timer for 40 minutes. When it rings, the child puts the pen down.
- Mark with a different colour pen using the table below. Write the score in the score box.

Paper 2: Reasoning: League Season

40 minutes, 35 marks. No calculator. For 2-mark questions, the child shows working in the box where there is one.

Answers and mark scheme

No.	Answer	Mark scheme	Marks
1	438	Award 1 mark for 438 ($348 + 100 = 448$, then $448 - 10 = 438$). Do not accept 448 (the second match) or 338.	1
2	3 and 8 ($235 + 178 = 413$)	Award 1 mark for both digits correct: 3 in the first box and 8 in the second box ($235 + 178 = 413$). Do not award the mark for one correct digit.	1
3	$\frac{3}{5}$	Award 1 mark for $\frac{3}{5}$ ticked.	1
4	5	Award 1 mark for 5 ticked.	1
5	85 minutes	Award 1 mark for 85. Accept 1 hour 25 minutes or 1 h 25 min. Do not accept 1.25 hours or 1 hour 35 minutes.	1
6	(1, 5)	Award 1 mark for (1, 5). Do not accept (5, 1), with the x and y values the wrong way round.	1
7	4,600	Award 1 mark for 4,600 ticked.	1

No.	Answer	Mark scheme	Marks
8	1,028, 1,082, 1,208, 1,280	Award 1 mark for all four in the correct order. Do not accept any other order, or a list with a number missing.	1
9	5	Award 1 mark for 5.	1
10	15	Award 1 mark for 15.	1
11	£18	Award 1 mark for 18 or £18 ($15 \times 14 = 210$ and $12 \times 16 = 192$, then $210 - 192 = 18$). Do not accept 210, 192 or 402.	1
12	$0.35 \rightarrow \frac{7}{20}$ $0.6 \rightarrow \frac{3}{5}$ $0.04 \rightarrow \frac{1}{25}$	Award 1 mark for all three lines correct: 0.35 to $\frac{7}{20}$, 0.6 to $\frac{3}{5}$ and 0.04 to $\frac{1}{25}$. Do not award the mark if any line is wrong or if $\frac{4}{10}$ is joined to a decimal ($\frac{4}{10} = 0.4$, a common wrong match for 0.04).	1
13	+1 (or 1)	Award 1 mark for 1 or +1. Do not accept -1 or 4.	1
14	£61	Award 1 mark for 61 or £61. Do not accept 126 (adding 4 and 5 first).	1
15	10	Award 1 mark for 10. Do not accept 25 (the whole group).	1
16	A cross at (3, -1): where the line up from 3 on the x-axis meets the line across from -1 on the y-axis.	Award 1 mark for a cross (or dot) clearly on the point (3, -1), 3 squares right of the y-axis and 1 square below the x-axis. Accept a mark within about 2 mm of the point. Do not accept a cross at (-1, 3), (3, 1) or (-1, -1), or two positions marked unless one is clearly crossed out.	1
17	$\frac{2}{5} + \frac{1}{4} = \frac{8}{20} + \frac{5}{20} = \frac{13}{20}$, not $\frac{3}{9}$. Sam added the numerators and added the denominators.	Award 1 mark for a correct explanation, for example: $\frac{2}{5} + \frac{1}{4} = \frac{8}{20} + \frac{5}{20} = \frac{13}{20}$, not $\frac{3}{9}$; or $\frac{3}{9}$ is the same as $\frac{1}{3}$, which is less than $\frac{2}{5}$ on its own, so the total cannot be $\frac{3}{9}$; or Sam added the denominators, but the fractions need the same denominator first (such as 20). Do not accept vague answers such as "he added it wrong" or " $\frac{3}{9}$ is wrong" with no reason. Do not accept explanations with wrong maths, such as $\frac{2}{5} + \frac{1}{4} = \frac{3}{20}$.	1
18	16 is a square number. 17 is a prime number. 18 is a multiple of 9. 15 is a factor of 30.	Award 2 marks for all four correct (16, 17, 18, 15 in that order). Award 1 mark for two or three correct.	2

No.	Answer	Mark scheme	Marks
19	£6.05	Award 2 marks for 6.05 or £6.05. Award 1 mark for the total cost of £23.95 shown, or a correct method with one arithmetic slip. Do not accept 605p or £6.5.	2
20	£34	Award 1 mark for 34 or £34. Do not accept 6 or £6 (the reduction only).	1
21	55°	Award 1 mark for 55 or 55°. Do not accept 125.	1
22	5	Award 2 marks for 5. Award 1 mark for a correct method, such as $2.5 \times 6 = 15$ and then $15 - 10$, with an arithmetic slip, or for 15 goals after six matches shown. Do not accept 2 (the mean of the first five).	2
23	30	Award 2 marks for 30. Award 1 mark only for working shown: a perimeter of 120 m with $120 \div 4$, or per-side counts such as 10, 10, 7, 7 with the corners counted twice (34). A bare answer of 34 with no working gets no mark. Do not accept 120.	2
24	2	Award 2 marks for 2. Award 1 mark for 15 and 13 shown, with a slip in the final subtraction. Do not accept 13 or 15 alone.	2
25	Won 3, drawn 1, lost 2 and won 2, drawn 4, lost 0 (in either row)	Award 2 marks for both ways, in either row: won 3, drawn 1, lost 2 AND won 2, drawn 4, lost 0. Award 1 mark for one correct way, or for a correct method with a wrong final answer, such as a list of wins and draws that make 10 points (1 win and 7 draws, 2 wins and 4 draws, 3 wins and 1 draw). Each way must add up to 6 matches: do not accept 1 won, 7 drawn.	2
26	40	Award 2 marks for 40. Award 1 mark for a correct division shown (39 remainder 14, or 39.58 or similar) with a wrong final answer such as 39. Do not accept 39 for 2 marks.	2
27	£480	Award 2 marks for 480 or £480. Award 1 mark for $840 \div 7 = 120$ shown, or for a correct method with one arithmetic slip, such as $840 \div 7$ then $\times 4$. Do not accept £120 (one share) or £240 (new balls).	2

Score: _____ / 35



Your child's score shows where the gaps are.

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