

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 3: Reasoning: Summer Cup

40 minutes, 35 marks. No calculator. For 2-mark and 3-mark questions, the child shows working in the box.

Answers and mark scheme

No.	Answer	Mark scheme	Marks
1	50,640 km	Award 1 mark for 50,640 (the display reads 49,640, and $49,640 + 1,000 = 50,640$). Accept 50640. Do not accept 59,640 or 49,740.	1
2	8	Award 1 mark for 8.	1
3	1 hour 58 minutes	Award 1 mark for 1 hour 58 minutes. Accept 118 minutes. Do not accept 1.58 hours, 1 hour 48 minutes or 2 hours 2 minutes.	1
4	(7, 5)	Award 1 mark for (7, 5). Both numbers must be in the right order. Do not accept (5, 7).	1
5	Priya: 7.19 seconds → 3rd Ife: 7.9 seconds → 4th Callum: 7.09 seconds → 1st Josh: 7.1 seconds → 2nd	Award 1 mark for all four lines correct: Callum (7.09) 1st, Josh (7.1) 2nd, Priya (7.19) 3rd, Ife (7.9) 4th. Do not award the mark if any line is wrong. Josh 1st and Callum 2nd is the usual error, from treating 7.1 as less than 7.09.	1
6	Fenwick Falcons	Award 1 mark for Fenwick Falcons (–3 is lower than –2). Westbrook United Juniors is the usual wrong answer.	1

No.	Answer	Mark scheme	Marks
7	8	Award 1 mark for 8. Do not accept 18 (12 + 6) or 10.	1
8	70,000	Award 1 mark for 70,000. Accept 70000 or seventy thousand. Do not accept 7 or 7,000.	1
9	4	Award 2 marks for 4. Award 1 mark for a correct method with a wrong answer, for example 1 win = 3 points for Fenwick Falcons, then 7 – 3 shown, or for showing that Fenwick Falcons have 3 points. Do not award the method mark for 7 – 1 = 6.	2
10	18	Award 1 mark for 18. Do not accept 12 (the matches on Sunday).	1
11	11	Award 1 mark for 11 (150 ÷ 14 = 10 remainder 10, so one more minibus is needed). Do not accept 10, 10.7 or 10 r 10.	1
12	3.8 m	Award 1 mark for 3.8 m (the radius is half the diameter). 15.2 m is the diameter doubled.	1
13	£90	Award 1 mark for 90. Accept £90 or £90.00. Do not accept 420 (35 × 12) or 65.	1
14	4	Award 2 marks for 4. Award 1 mark for the perimeter of 140 metres (or 2 × (42 + 28), or 42 + 28 + 42 + 28) with a wrong or missing final answer. Do not award the method mark for 1,176 (the area).	2
15	0.375	Award 1 mark for 0.375 (3 of the 8 shots were scored, and $\frac{3}{8} = 3 \div 8 = 0.375$). Accept .375. Do not accept $\frac{3}{8}$ on its own, 0.38 or 0.37.	1
16	118	Award 1 mark for 118 (angles around a point add up to 360°, and 360 – 135 – 107 = 118). Do not accept 242 (135 + 107).	1
17	69,562 is nearer to 70,000 than to 69,000: the hundreds digit is 5, so it rounds up to 70,000.	Award 1 mark for a correct explanation, for example: 69,562 is nearer to 70,000 than to 69,000; or the hundreds digit is 5 or more, so it rounds up to 70,000; or 69,562 is more than 69,500, which is halfway. Do not accept 70,000 with no reason, or vague answers such as "he rounded the wrong way". Do not accept explanations with wrong maths, such as "it rounds to 69,600".	1
18	$\frac{2}{3}$	Award 1 mark for $\frac{2}{3}$. $\frac{6}{9}$ and $\frac{4}{6}$ are equivalent to $\frac{12}{18}$ but are not in simplest form.	1

No.	Answer	Mark scheme	Marks
19	A cross at $(-4, -2)$: 4 squares left of the y-axis and 2 squares below the x-axis.	Award 1 mark for a cross (or dot) clearly on the point $(-4, -2)$, where the line up from -4 on the x-axis meets the line across from -2 on the y-axis. Accept a mark within about 2 mm of the point. The child may also plot the three given corners or draw the rectangle: this does not lose the mark. Do not accept a cross at $(-2, -4)$, $(4, 2)$ or $(-4, 2)$.	1
20	24	Award 2 marks for 24. Award 1 mark for 468 (36×13) shown, or for a correct method with an arithmetic slip, for example 36×13 then $\div 20$. Do not accept 23 or 23.4 as the final answer.	2
21	14	Award 1 mark for 14. Do not accept 26 (the penalties not saved) or 35.	1
22	12	Award 1 mark for 12 ($40 - 4 = 36$, then $36 \div 3 = 12$). Do not accept 14.67 or 44.	1
23	70	Award 1 mark for 70 ($(180 - 40) \div 2 = 70$). Do not accept 140 or 40.	1
24	1,500 ml	Award 2 marks for 1,500. Accept 1500. The container shows 15 litres (15,000 ml) at the start, then $15,000 - 13,500 = 1,500$. Award 1 mark for 13,500 (18×750) shown, or for 15,000 in millilitres seen, or for a correct method with one arithmetic slip. Do not accept 1.5 on its own, because the unit is printed as ml.	2
25	$\frac{5}{12}$	Award 2 marks for $\frac{5}{12}$. Accept an equivalent fraction, for example $\frac{10}{24}$. Award 1 mark for $\frac{7}{12}$ ($\frac{1}{3} + \frac{1}{4}$), or for $\frac{4}{12}$ and $\frac{3}{12}$ seen, or for a common denominator of 12 used correctly with one error.	2
26	£567	Award 2 marks for 567. Accept £567.00. Award 1 mark for 63 ($1,512 \div 24$) shown, or for a correct method with one arithmetic slip, for example 63×9 with a multiplication error.	2
27	£60	Award 3 marks for 60. Accept £60.00. Award 2 marks for a correct method with one arithmetic error (for example $36 \times 46 = 1,656$, then $1,656 - 576 = 1,080$, then a slip in the division). Award 1 mark for 1,656 (36×46), or for 1,080 ($1,656 - 384 - 192$) shown.	3

Score: _____ / 35



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