2

- Write down an example of each of the following. 1
 - (a) An even number.
 - (b) A multiple of 7.
 - (c) A cube number between 20 and 220.
- (c) [1]

(a)[1]

(b)

[1]

(d) A prime number less than 10.

[1] 2 Here is a list of five numbers. 10 12 4 3 6 (a) Write down the median.

- (a) [1]
- (b) A sixth number is added to the list. The range of the six numbers is 15.

Work out a possible value for the sixth number.

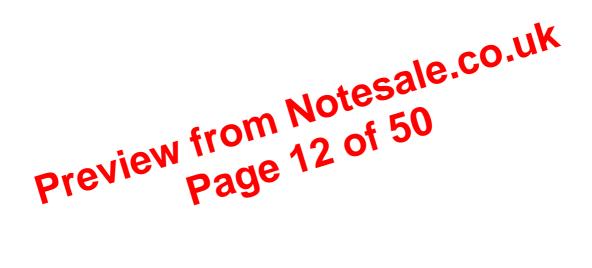
16 A sports team scored 400 points.

The defenders scored $-\frac{1}{10}^{1}$ of the points.

The midfielders and the forwards scored the remainder of the points in the ratio 1:5.

11

Find the percentage of the 400 points that were scored by the forwards. You must show your working.



......% [5]

26 Solve the simultaneous equations.

4x - y = 242x + 3y = 26

of size, smaller firzo of 50 [3] 27 Write the following orde 0.2

Show how you decide.

smallest

END OF QUESTION PAPER

MARKING INSTRUCTIONS

- Make sure that you have accessed and completed the relevant training packages for on -screen marking: RM Assessor Online Training, OCR 1. Essential Guide to Marking.
- Make sure that you have read and understood the mark scheme and the question paper for this unit. These are available in RM A ssessor. 2.
- Log-in to RM Assessor then mark and annotate the **required number** of practice responses ("scripts") and the **required number** of standardisation responses.

 KING

 Mark strictly to the met strivene.

 Marks available must relate directly to marking criteria.

 3.

MARKING

- 1.
- 2.
- 3. The schedule of dates is very important. It is essential that you meet the RM Assessor 50% and 100% deadlines. If you experience problems, you must contact your Team Leader (Supervisor) without delay.
- If you are in any doubt about applying the mark scheme, consult your Team Leader via the RM Assessor messaging system. 4.
- Where a candidate has crossed out a response and provided a clear alternative then the crossed out response is not marked. Where no alternative 5. response has been provided, examiners should give candidates the benefit of the doubt and mark the crossed out r esponse where legible.
- When a candidate provides contradictory responses, then no mark should be awarded, even if one of the answers is correct. 6.
- 7. On each blank page the annotation **BP** must be inserted to confirm that the page has been checked. For additional objects (if present), a tick must be inserted on each page to confirm that it has been checked.
- Award No Response (NR) if: 8.
 - · there is nothing written in the answer space
 - Award Zero '0' if:
 - anything is written in the answer space and is not worthy of credit (this includes text and symbols).
 - Team Leaders must confirm the correct use of the NR button with their markers before live marking commences and should check this when reviewing scripts.

Note: Award 0 marks for an attempt that earns no credit (including copying out the question).

Mark Scheme

9. The RM Assessor **comments box** is used by the Principal Examiner or your Team Leader to explain the marking of the practice responses. Please refer to these comments when checking your practice responses. **Do not use the comments box for any other reason.**

If you have any questions or comments for your Team Leader, use the RM Assessor messaging system.

- 10. Assistant Examiners should send a brief report on the performance of candidates to peir Team Leader (Supervisor) by the end of the marking period. Please follow the direction of your Team Leader about which questions rous) out report on and how to submit your report. Your report should contain notes on particular strengths displayed as well as compositions or weaknesses.
- 11. Annotations available in RM Assessor. These revealed wherever appropriate during your marking.

Annotation	Meaning 6 0
vprevie pa	Meaning 26 01 50 Great
×	Incorrect
BOD	Benefit of doubt
FT	Follow through
ISW	Ignore subsequent working (after correct answer obtained), provided method has been completed
MO	Method mark awarded 0
M1	Method mark awarded 1
M2	Method mark awarded 2
A1	Accuracy mark awarded 1
B1	Independent mark awarded 1

Subject-Specific Marking Instructions

- **M** marks are for <u>using a correct method</u> and are not lost for purely numerical errors. 12. A marks are for an accurate answer and depend on preceding M (method) marks. Therefore M0 A1 cannot be awarded. B marks are independent of M (method) marks and are for a correct final answer, a partially correct answer, or a correct intermediate stage. 13. The following abbreviations are commonly found in GCSE mathematics mark schemes.
 figs 237 for example.
- - figs 237, for example, means an mower with only the e dig ts. You should ignore leading or trailing zeros and any decimal point e.g. 237000, 2.37, 2.370, 00 23 would be acceptible but 23070 or 2374 would not.
 - isw means ign methosequent working a correct answer obtained and applies as a default.
 - nforwareans not from wrang v or wig
 - or means or equivalent
 - rot means rounded or truncated.
 - soi means seen or implied.
 - dep means that the marks are dependent on the marks indicated. You must check that the candidate has met all the criteria specified for the mark to be awarded.
 - with correct working means that full marks must not be awarded without some working. The required minimum amount of working will be defined in the guidance column and SC marks given for unsupported answers.
- 14. Anything in the mark scheme which is in square brackets [...] is not required for the mark to be earned, but if present it must be correct.
- Unless the command word requires that working is shown and the working required is stated in the mark scheme, then if the cor rect answer is clearly 15. given and is not from wrong working full marks should be awarded.

Do not award the marks if the answer was obtained from an incorrect method, i.e. incorrect working is seen and the correct an swer clearly follows from it.

Where follow through (FT) is indicated in the mark scheme, marks can be awarded where the candidate's work follows correctly from a previous 16. answer whether or not it was correct. For questions with FT available you must ensure that you refer back to the relevant pre vious answer. You may find it easier to mark these questions candidate by candidate rather than question by question.

Mark Scheme

June 2024

Figures or expressions that are being followed through are sometimes encompassed by single quotation marks after the word their for clarity, e.g. FT 180 x (their '37' + 16), or FT 300 – (their '52 + 72'). Answers to part questions which are being followed through are indicated by e.g. FT $3 \times their$ (a).

- 17. In questions with no final answer line, make no deductions for wrong work after an acceptable answer (i.e. isw) unless the mark scheme says
- 18.
- In questions with a final answer line and incorrect answer give CO.UK (i) If the correct answer is seen in the best wer given on the answer line is a clear transcription err or allow full marks unless the mark scheme say in Innetation answer next to the correct answer.
 - working but the answer line is blank, allow full marks. Place the annotatio n 🎽 next to the correct answer.
 - (iii) If the correct answer is seen in the body of working but a completely different answer is seen on the answer line, then accuracy marks for the answer are lost. Method marks could still be awarded if there is no other method leading to the incorrect answer. Use the M0, M1, M2 annotations as appropriate and place the annotation next to the wrong answer.
- In questions with a final answer line: 19.
 - (i) If one answer is provided on the answer line, mark the method that leads to that answer. A correct step, value or statement t hat is not part of the method that leads to the given answer should be awarded M0 and/or B0.
 - (ii) If more than one answer is provided on the answer line and there is a single method provided, award method marks only.
 - (iii) If more than one answer is provided on the answer line and there is more than one method provided, award marks for the poorer response unless the candidate has clearly indicated which method is to be marked.
- In questions with **no final answer line**: 20.
 - (i) If a single response is provided, mark as usual.
 - (ii) If more than one response is provided, award marks for the poorer response unless the candidate has clearly indicated which response is to be marked.

Question		on	Answer	Marks	Part marks and guidance	
19			46.34	3 .+ P	B2 for 46.33[7] or B1 for 99 493[.836] or 144 266[.0625] If 0 scored C1 or <i>their</i> answer to more than 4 figure correctly rounded to 4 s.f.	for B1 accept these numbers rot to at least integers
20		Pr	Lutur - - - - - - - - - - - - -		50 A1 dep on M1 M1	Allow equivalents for both M1 s but it must be full and correct working and allow any correct method e.g. M1 for
21	(a)	(i)	(360 – 52) ÷ (1 + 2 + 4) or better [= 44]	2	M1 for $360 - 52$ or 308 or <i>their</i> ($360 - 52$) \div (1 + 2 + 4) Alternative method 1 : M2 for $7x = 360 - 52$ or $7x = 308$ then $x = 44$ or M1 for x, 2x and 4x or $360 - 52$ or 308 Alternative method 2 : M2 for $52 + 44 + 2 \times 44 + 4 \times 44 = 360$ oe or M1 for $52 + 44 + 2 \times 44 + 4 \times 44$ oe	better includes 308 ÷ 7 Mark the work in the answer space and if blank, mark any work round the diagram Allow any letter For M2 and M1 accept 88 for 2 x 44 and 176 for 88 x 2