



2023 Key Stage 2 Mathematics Mark Scheme - All on One A4 Sheet



* There is additional guidance in the mark scheme including guidance on answers that may be worthy of credit if the answer is incorrect.
Each question is worth 1 mark unless otherwise stated (e.g. Q26g indicates 2 marks). Full mark schemes can be found [here](#).

Paper 1 Arithmetic

Qn.	Answer
1	697
2	6,594
3	2,808
4	8,413
5	240
6	960
7	14,753
8	2,754
9	50
10	520
11	400
12	6
13	900
14*	10/63
15	83
16*	13/16
17	0.69
18*	17/18
19	13,175
20*	37,592 (2m)
21*	1/24
22*	2
23	78
24	38.4
25*	1.3 (2m)
	1,349 r1 OR
26*	1,349 r2 OR
	1,349 1/5
27*	364
28*	1/18
29*	224,763 (2m)
30*	171
31	14.8
32*	3/10
33*	1.72 (2m)
34*	2 1/12 OR
	25/12
35*	285
36*	600

Paper 2 Reasoning

Qn.	Answer
1	
2*	
3	(5, 2)
4	7
	A correct explanation, e.g.
	• Uses 3 cars and 3 motorcycles to show that number of wheels cannot be 28 because there are 26 wheels.
	• Uses 3 motorcycles and the sum of 28 wheels to show that the number of cars cannot be 3.
	• Uses 3 cars and the total number of 28 wheels to show that the number of motorcycles cannot be 3.
	• Demonstrates that Stefan would have either two more wheels or an extra motorcycle.
5*	23.61
7*	75 100 250
8*	24,800
	All three diagrams matched correctly
9*	
10	216
11a	20,519
11b	18,939
12*	
13	110
14	Answer in the range of 138 to 152 inclusive
15*	
16*	5
17*	13 (2m)
18*	3/20 (2m)
19	200
20*	
21*	267.5 OR 267 1/2 (m) (2m)
22*	3/52
23*	19 (2m)
24	564
25a	20
25b*	4.8 kg (2m)
26a	18
26b	3

Paper 3 Reasoning

Qn.	Answer
1	
2*	
3*	
4	1,700 1,800 1,900 2,000 2,100
5*	13.2 14.7 15.3 16.3 17.8
6	300,000
7*	10 5/12
8*	Shapes matched as shown: Explanation that recognises that 32 is not a multiple of 3 OR a description that includes one or both of the multiples of 3 either side of 32
10*	3
11*	1,458 (2m)
	Two marks for two boxes correctly ticked, and no incorrect boxes ticked
12*	ONE mark for two boxes ticked correctly and one incorrect box ticked OR only one box ticked correctly and no incorrect boxes ticked
13	9
14a*	1/4
14b*	1/5
15a*	1:50 OR 09:50 pm OR 17:50
15b*	1 (hours) 45 (minutes)
16*	350g (2m)
17*	5/6
18a*	Drawing in the range 650mm to 750mm
18b*	1,543 (2m)
19*	102.65 (2m)
	Two marks for three correct expressions circled. One mark for two correct expressions circled and none incorrect
21*	32.3 (3m)
22	range
	Two marks for both correct.
23	One mark for one correct.

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Mark Chatterton, Wendy Chatterton

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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web toggle on use strain rate dependent data in the material editor a column labeled rate appears in the tabular data area fill in each row with the appropriate values for special table editing options or to read data from an ascii file press mouse button 3 for more information see entering tabular data

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web mar 5 2015 given you have a target strain rate on a defined element set the pressure will be calculated in order that the maximum strain rate on this element set is always between 0.708 and 1.5

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web to overcome this problem abaqus explicit computes the equivalent plastic strain rate used for the evaluation of strain rate dependent data in terms of a factor that facilitates filtering the high frequency oscillations you can specify the value of the strain rate factor

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web strain rate dependence can be defined by entering hardening curves at different strain rates directly or by defining yield stress ratios to specify the rate dependence independently direct entry of test data

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web input file usage use the following options to include creep behavior in the material model definition material creep use the following options to define creep in conjunction with gasket behavior gasket behavior creep abaqus cae usage property module material editor mechanicalplasticitycreep choosing a creep model

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web the strain rate can be defined by creating a variable in a subroutine and assigning it to the desired strain rate value but in order to be better able to answer i need you to explain more

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web young s modulus 200×10^3 the rate dependence parameters are as follows for the test that verifies the temperature dependencies the power law is entered as a piecewise linear relationship for the cases in which rate dependent test data are specified directly the units are not important

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web if this parameter is omitted it is assumed that the rate dependent material behavior depends only on temperature see specifying field variable dependence in material data definition section 16.1.2 of the abaqus analysis user s manual for more information

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web abaqus cae usage property module material editor name use the menu bar under the material options list to add behaviors to a material large strain considerations when giving material properties for finite strain calculations stress means true cauchy stress force per current area and strain means logarithmic strain

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web abaqus allows you to define a material s yield behavior accurately when the yield strength depends on the rate of straining and the anticipated strain rates are significant you can define strain rate dependence in two ways enter hardening curves at different strain rates directly as described in the following sections

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web constant strain rates ranging from 10^{-5} s to 10^{-1} s these strain rate dependent stress strain relations are used in the input file and were simulated using fe modelling using abaqus same size of the specimen i.e. 12.7 mm diameter and 25.4 mm height is modelled in the fe analysis figure 1 shows the fe mesh developed both