

Key stage 3 mathematics 2005

Mental mathematics Test A

First name _____

Last name _____

School _____

Total marks

Practice question

		38 12	
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Time: 5 seconds

1		54	1
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2			2
	(,)		

3			3
---	--	--	---

4	mm	1m	4
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5		$\frac{3}{5}$	5
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Time: 5 seconds continued

6		6.2	6
---	--	-----	---

7			7
		°	

8		3.795	8
---	--	-------	---

Time: 10 seconds

9	m	1cm : 5m	9
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10		3 5	10
----	--	-----	----

11	°	60° 70°	11
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12	7, 4, 1, ,		12
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13	$6g + 4h + 3g - 2h$		13

14		18 9	14
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15	cm	20cm 7cm	15
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16		5% 16	16
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17		$32 - 2a = 24$	17
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Time: 10 seconds continued

18		9.2 2.9	18
19	10 km 12 minutes		19
		km/h	
20		$2a(a + 4)$	20

Time: 15 seconds

21

Girls

Four identical circles are arranged horizontally, representing 16 people (4 circles × 4 people per circle).

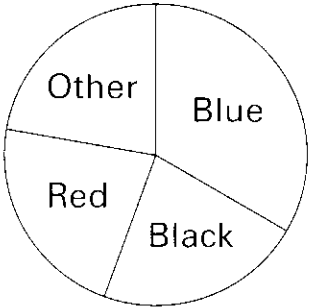
Boys

Two identical circles and one semi-circle are arranged horizontally, representing 12 people (2 circles × 4 people per circle + 1 semi-circle × 2 people per semi-circle).

A single circle representing 4 people.

= 4 people

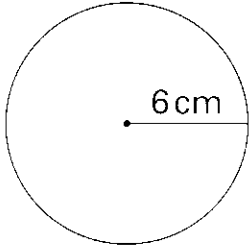
21

22		22
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23	$a = -3$ $b = -7$ $a - b$	23
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24	5 5 	24
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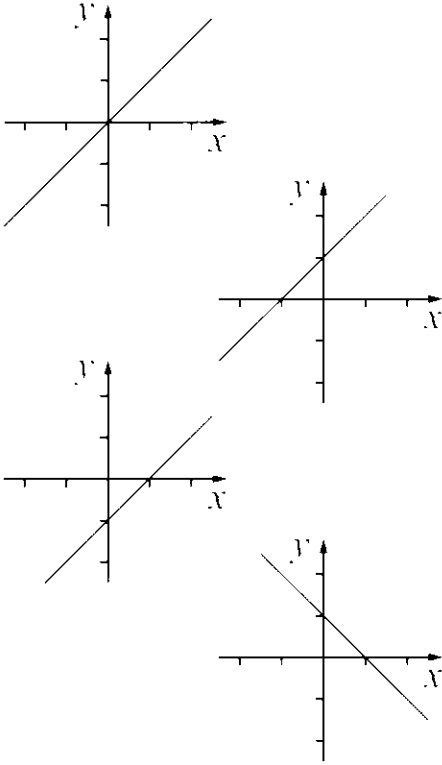
Time: 15 seconds continued

25		25
	cm	

26	$\frac{2}{3}$ $\frac{3}{4}$ 80	26
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27	<table><tr><td>No. of people</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>Frequency</td><td>5</td><td>4</td><td>0</td><td>1</td></tr></table>				No. of people	1	2	3	4	Frequency	5	4	0	1
	No. of people	1	2	3	4									
	Frequency	5	4	0	1									
people														

28	cm ²	8cm ²	28
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29		29
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30	$\frac{2}{5}$ 1	30
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