

Level 2 Test – Skills

Name

Number Facts Section 2 minutes Non-calculator

10 points minus 1 point per incorrect or missing answer. Minimum 0.

Score:

/10

Tick in the right column if correct.

	Question	Answer	Tick
Q1	$2 + 3$		
Q2	$7 + 5$		
Q3	8×3		
Q4	$7 - 6$		
Q5	$8 + 9$		
Q6	$35 \div 7$		
Q7	9×3		
Q8	$12 - 4$		
Q9	$9 + 4$		
Q10	9×5		
Q11	3×4		
Q12	$36 \div 6$		
Q13	$6 + 8$		
Q14	$49 \div 7$		
Q15	$13 - 9$		

	Question	Answer	Tick
Q16	4×7		
Q17	$13 - 5$		
Q18	$5 + 9$		
Q19	$21 \div 7$		
Q20	$36 \div 4$		
Q21	8×2		
Q22	$7 + 7$		
Q23	$9 - 6$		
Q24	9×7		
Q25	$25 \div 5$		
Q26	8×8		
Q27	$48 \div 6$		
Q28	$8 + 5$		
Q29	$11 - 6$		
Q30	9×6		

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Mental Arithmetic Section 10 minutes Non-calculator

Each question is worth 1 mark. Only answers required. Scribbling paper allowed.

Score:

/15

Tick in the right column if correct.

	Question	Answer	Tick
Q1	$637 + 51$		
Q2	$500 - 168$		
Q3	400×250		
Q4	$860 \div 200$		
Q5	144×4		
Q6	$\frac{2}{3}$ of 420		
Q7	8% of \$400		
Q8	$4 \div 0.05$		
Q9	0.06×0.2		
Q10	$-21 + 41$		
Q11	$-\frac{1}{2} \times -4.8$		
Q12	$1\frac{1}{2} \times \frac{3}{4}$		
Q13	$2 \div \frac{3}{5}$		
Q14	$5 - 12 \div (-3 \times 2)$		
Q15	$24 \div 2 + 6 \div 3 \times 2$		

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Problem Solving Section 45 minutes Calculators allowed

Work on the paper provided. Show your working and explain your thinking. You will get credit for solving the problems and for your communication. Part solutions will get part of the marks.

Problem Solving Score: /25 Score in the right column.

Communication Score: /10 .

Q1	Five whole numbers have a mode of 8, a range of 7, a median of 9 and a mean of 10.6. What are the numbers?	/5
Q2	The numbers 910 and 235 have two special properties. Each number is multiple of 5 and the sum of the digits of each number equals 10. In total, how many three-digit numbers have this property?	/10
Q3	To decimalise time, the Department of Confusion and Chaos divided their day into 10 hours, their hours into 100 minutes and their minutes into 100 seconds. What was the time by normal clocks when the Department of Confusion and Chaos clocks said 5:82:26?	/10

Q2 taken from SE Queensland Maths Team Challenge 2011.

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Investigating Section

1 week

Calculators allowed

Work on the paper provided. Show your working and explain your thinking. You will get credit for what you find and for your communication.

Investigating Score: /25

Communication Score: /15

24 cubes can be assembled into a rectangular prism in 6 ways:

$4 \times 3 \times 2$ or $6 \times 2 \times 2$ or $6 \times 4 \times 1$ or $8 \times 3 \times 1$ or $12 \times 2 \times 1$ or $24 \times 1 \times 1$.

Investigate for other numbers of cubes.