

# 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	$4 + 4$		
Q2	$2 + 5$		
Q3	$5 \times 5$		
Q4	$7 - 3$		
Q5	$7 + 9$		
Q6	$30 \div 5$		
Q7	$4 \times 3$		
Q8	$12 - 7$		
Q9	$9 + 9$		
Q10	$7 \times 5$		
Q11	$3 \times 6$		
Q12	$24 \div 6$		
Q13	$6 + 7$		
Q14	$54 \div 6$		
Q15	$15 - 9$		

	Question	Answer	Tick
Q16	$4 \times 5$		
Q17	$13 - 6$		
Q18	$8 + 9$		
Q19	$42 \div 7$		
Q20	$45 \div 9$		
Q21	$4 \times 4$		
Q22	$7 + 1$		
Q23	$11 - 6$		
Q24	$9 \times 4$		
Q25	$30 \div 5$		
Q26	$4 \times 8$		
Q27	$48 \div 8$		
Q28	$4 + 5$		
Q29	$14 - 6$		
Q30	$9 \times 3$		

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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	$245 + 71$		
Q2	$320 - 184$		
Q3	$500 \times 20$		
Q4	$1460 \div 20$		
Q5	$158 \times 4$		
Q6	$\frac{2}{5}$ of 420		
Q7	11.2% of \$1000		
Q8	$400 \div 0.02$		
Q9	$0.005 \times 0.2$		
Q10	$-11 + 4.1$		
Q11	$-1 \times -4.8$		
Q12	$\frac{2}{5} \times \frac{3}{4}$		
Q13	$2 \div \frac{3}{4}$		
Q14	$9 - 12 \div (3 \times 2)$		
Q15	$16 \div 2 - 5 \times 2$		

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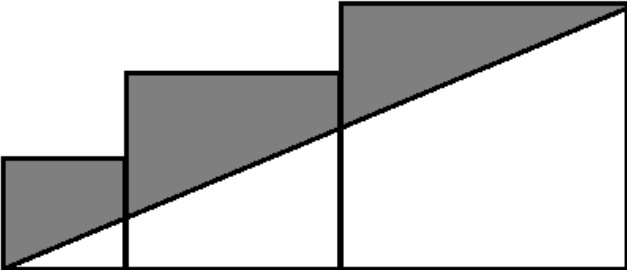
Name .....

### 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	<p>A 250 g packet of jellybeans costs \$4.50. The nutritional information says that 100 g provides 345 calories (kcal). Ruby needs 2100 calories per day.</p> <p>What would it cost her to live on jellybeans for the whole of June?</p>	/5
Q2	<p>The figure below is made of three squares which have areas of 9 square centimetres, 25 square centimetres and 49 square centimetres respectively.</p> <p>What is the area of the shaded region in square centimetres?</p> 	/10
Q3	<p>Ella is driving to a job interview and, at her current speed, she will be 12 minutes late. Her destination is 60 kilometres away and if she increases her speed by 10 km/h she will arrive on time. What was her original speed in km/h?</p>	/10

Q2 and Q3 taken from SE Queensland Maths Team Challenge 2015.

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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

- $1 \div 5 = 0.2$  (no repeating)
- $1 \div 3 = 0.33333\dots$  (1 digit repeating)
- $1 \div 7 = 0.142857142857142\dots$  (6 digits repeating)
- $1 \div 11 = 0.090909090\dots$  (2 digits repeating)

Investigate for other divisions.