



Year 7 Maths Summer Booklet

For new Year 7 students joining St Ives School in September 2021.

Please hand in to your maths teacher.



NAME

Maths – Week 1

Question 1 Write in figures : thirteen thousand, five hundred and two units	Question 2 Write in figures : seventy seven thousand, eight tens and three units	Question 3 List the factors of 51	Question 4 List the factors of 36
Question 5 Work out $7 \times 10 =$	Question 6 Work out $10 \times 10 =$	Question 7 Simplify $\frac{8}{16}$	Question 8 Simplify $\frac{12}{42}$
Question 9 Find 50% of £180	Question 10 Find 25% of £120	Question 11 Round 2084 to the nearest 100	Question 12 Round 3372 to the nearest 10
Question 13 Work out $86 \times 8 =$	Question 14 Work out $630 \times 9 =$	Question 15 Simplify $5c + 5c + 6c$	Question 16 Simplify $10a + 2b + 8a + 7b$
Question 17 Work out $39253 + 15736 =$	Question 18 Work out $30730 + 18364 =$	Question 19 Work out $8 \times 2 - 5$	Question 20 Work out $6 + 11 \times 3$

Emily has 4 different coins in her pocket.
Half of the coins are worth less than 50p.

Find the minimum and maximum possible totals for the money Emily has?

The Sudoku Puzzle Challenge

Complete the Sudoku puzzle so that each and every row, column, and region contains the numbers one through nine only once.

	2			6		3		1
		1	5	9				2
	7					4	6	
				4	3	1	8	
9	1			7			2	4
	4	7	1	5				
	9	4					3	
2				8	7	9		
1		5		2			4	

1. 60% of 40	2. 35% of 190	3. 10% of 470	4. 40% of 510	5. 99.52 - 81.6	6. 73.62 + 39.2	7. 5 × 0.9	8. 2 × 1.2
9. 91 + 46.69	10. 40 ÷ 10	11. 8% of 250	12. 60% of 460	13. 3% of 350	14. 2 × 1.1	15. 80% of 60	16. 85% of 460
17. 89.4 - 89.1	18. 6 × 0.7	19. 9% of 490	20. 65% of 400	21. 49 + 1.4	22. 0.4 × 0.5	23. 20 + 1.6	24. 81 ÷ 9
25. 50% of 230	26. 65% of 30	27. 30% of 140	28. 7 × 7	29. 8 × 0.8	30. 37.97 - 34	31. 10% of 390	32. 90 ÷ 9
33. 90% of 540	34. 71 + 17.64	35. 7% of 320	36. 4% of 530	37. 30.78 - 21.4	38. 8% of 310	39. 90% of 190	40. 59 + 18.3

SCORE

NUMBER-UP

TIME

Countdown Challenge

The challenge is to use the numbers available and the four standard operations (addition, subtraction, multiplication and division) to hit the target.

Each card can only be used once. It may not be necessary to use all the cards.

841

5	8	3	2	6	1
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Maths – Week 2

Question 1 Write in figures : six thousand, four tens and six units	Question 2 Write in figures : One hundred and twenty six thousand, nine tens and three units	Question 3 List the factors of 30	Question 4 List the factors of 20
Question 5 Work out $306 \times 1000 =$	Question 6 Work out $34 \times 1000 =$	Question 7 Simplify $\frac{20}{70}$	Question 8 Simplify $\frac{18}{63}$
Question 9 Find 75% of £720	Question 10 Find 75% of £500	Question 11 Round 6199 to the nearest 100	Question 12 Round 2096 to the nearest 1000
Question 13 Work out $77 \times 9 =$	Question 14 Work out $397 \times 6 =$	Question 15 Simplify $9x + 4x - 3x$	Question 16 Simplify $10a + 3b + 7a + 6b$
Question 17 Work out $37959 + 32050 =$	Question 18 Work out $24509 + 19451 =$	Question 19 Work out $5 \times 2 + 2$	Question 20 Work out $5 \times 4 + 3$

Jacob has 10p, 20p and 50p coins in his pocket. One quarter of the coins are 50p coins with a total of £3.00
The ratio of the number of 10p coins to the number of 20p coins is 2 : 7
How much money does Jacob have?

The Sudoku Puzzle Challenge

Complete the Sudoku puzzle so that each and every row, column, and region contains the numbers one through nine only once.

	7	9	1		5			
6	1				8	5		
				9		1	4	
			5	8		7		2
7								3
8		1		3	2			
	6	7		4				
		4	9				8	1
			2		6	4	3	

1. 2% of 400	2. 85% of 530	3. 55.4 - 53.59	4. 20% of 40	5. 36.4 - 29	6. 54 + 11.7	7. 35% of 20	8. 2×0.3
9. 30% of 370	10. 65% of 20	11. $6 \div 3$	12. 1.2×3	13. 5×3	14. 60% of 170	15. 60% of 210	16. 2×0.4
17. 55.54 - 13.76	18. $81 + 1$	19. 3% of 500	20. 3% of 510	21. 70% of 140	22. 4% of 350	23. 75% of 420	24. 20% of 510
25. $38.66 + 8.84$	26. 3×5	27. $30 \div 3$	28. 50% of 510	29. 15% of 400	30. $70 - 22.4$	31. 0.8×4	32. $71.8 + 17.5$
33. $74.93 + 11.4$	34. 45% of 70	35. 12% of 560	36. 10% of 330	37. 0.5×7	38. 5% of 170	39. $99.79 + 14.58$	40. 11% of 90

SCORE

NUMBER-UP

TIME

Countdown Challenge

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897

100

9

9

1

1

4

Maths – Week 3

Question 1 Write in figures : fifteen thousand, six hundred and three units	Question 2 Write in figures : six thousand, seven hundred and nine units	Question 3 List the factors of 42	Question 4 List the factors of 38
Question 5 Work out $734 \times 10 =$	Question 6 Work out $49 \times 100 =$	Question 7 Simplify $\frac{24}{36}$	Question 8 Simplify $\frac{5}{25}$
Question 9 Find 50% of £520	Question 10 Find 25% of £580	Question 11 Round 4789 to the nearest 100	Question 12 Round 8671 to the nearest 10
Question 13 Work out $74 \times 9 =$	Question 14 Work out $493 \times 3 =$	Question 15 Simplify $5x - 4x - 6x$	Question 16 Simplify $8a + 4b + 6a + 6b$
Question 17 Work out $22960 + 20143 =$	Question 18 Work out $16489 + 8932 =$	Question 19 Work out $29 - 11 \times 4$	Question 20 Work out $2 \times 2 + 5$

Jack buys 50 pens for 65p each.
He sells 80% of the pens making a 20% profit on each.

To sell the remainder of the pens he is forced to reduce his price making a loss of 9p on each.

Assuming he sells all of his pens calculate his total profit.

The Sudoku Puzzle Challenge

Complete the Sudoku puzzle so that each and every row, column, and region contains the numbers one through nine only once.

			5	8	4		1	
2		5						
8				6		9		3
	9	2			7			1
	8		1		6		7	
6			8			3	9	
3		4		5				7
						4		6
	6		4	1	3			

1. 55% of 360	2. 20% of 490	3. 45.4 + 19	4. 91 + 8	5. 15% of 300	6. 8 × 5	7. 30% of 370	8. 80% of 230
9. 9% of 530	10. 11% of 350	11. 76.58 - 4.6	12. 8 × 0.7	13. 92.22 + 4.6	14. 65% of 210	15. 0.4 × 6	16. 2 × 0.7
17. 6% of 580	18. 0.9 × 1.1	19. 80% of 490	20. 12 ÷ 6	21. 8% of 540	22. 60% of 350	23. 53 - 27.87	24. 20% of 30
25. 50% of 60	26. 85 + 23	27. 0.4 × 0.9	28. 74.4 + 11	29. 67.66 - 13	30. 63 + 8.7	31. 5% of 100	32. 5% of 230
33. 11 × 7	34. 55.29 - 20	35. 40 ÷ 5	36. 8% of 220	37. 10% of 570	38. 24 ÷ 6	39. 40% of 500	40. 90% of 480

SCORE

NUMBER-UP

TIME

Countdown Challenge

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676

75	50	25	8	7	4
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Maths – Week 4

Question 1 Write in figures : sixty nine thousand, nine tens and three units	Question 2 Write in figures : eleven thousand, three hundred and five units	Question 3 List the factors of 56	Question 4 List the factors of 57
Question 5 Work out $572 \times 1000 =$	Question 6 Work out $411 \times 10 =$	Question 7 Simplify $\frac{48}{50}$	Question 8 Simplify $\frac{12}{60}$
Question 9 Find 75% of £760	Question 10 Find 25% of £400	Question 11 Round 3113 to the nearest 10	Question 12 Round 407 to the nearest 10
Question 13 Work out $52 \times 7 =$	Question 14 Work out $393 \times 2 =$	Question 15 Simplify $6b + 3b + 8b$	Question 16 Simplify $5a + 5b + 4a + 5b$
Question 17 Work out $48625 + 12323 =$	Question 18 Work out $13416 + 6573 =$	Question 19 Work out $7 \times 2 - 4$	Question 20 Work out $9 \times 2 - 5$

Tom's Taxis charge a fixed fee of £3.20 and then 40p for each mile travelled.

Carl's Cars charge a fixed fee of £2.75 and then 55p for each mile travelled.

Which company would be cheapest and by how much for a 12 mile journey?

The Sudoku Puzzle Challenge

Complete the Sudoku puzzle so that each and every row, column, and region contains the numbers one through nine only once.

		9	5				1	7
	7		8				3	
8		3		1		9		
				5	6			2
1		6				5		3
9			2	8				
		7		4		3		8
	1				5		6	
3	5				8	4		

1. $73.47 + 27.5$	2. 70% of 490	3. $66.81 + 44.01$	4. 11% of 280	5. 0.8×3	6. 40% of 170	7. $55.19 - 9$	8. $81 + 69.41$
9. 4×6	10. 60% of 260	11. $99.97 - 51.8$	12. 90% of 210	13. 10% of 190	14. $8 \div 2$	15. $98 + 56.35$	16. $40.63 - 33$
17. 65% of 310	18. $54.16 - 14.7$	19. 9% of 510	20. $29.46 + 12.7$	21. $25 \div 5$	22. 45% of 180	23. 40% of 400	24. 65% of 430
25. 8% of 360	26. 0.9×0.7	27. 55% of 550	28. 10% of 450	29. 20% of 130	30. 0.6×8	31. 12% of 390	32. $108 \div 9$
33. 11% of 260	34. 1.2×0.3	35. 9% of 360	36. 8% of 320	37. 20% of 580	38. 10×1.2	39. $48 + 9.11$	40. 11×7

SCORE

NUMBER-UP

TIME

Countdown Challenge

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Each card can only be used once. It may not be necessary to use all the cards.

701

50	75	3	2	10	4
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Maths – Week 5

Question 1 Write in figures : nineteen thousand, eight hundred and three units	Question 2 Write in figures : six thousand, eight tens and eight units	Question 3 List the factors of 99	Question 4 List the factors of 28
Question 5 Work out $96 \times 10 =$	Question 6 Work out $31 \times 100 =$	Question 7 Simplify $\frac{6}{33}$	Question 8 Simplify $\frac{6}{42}$
Question 9 Find 50% of £880	Question 10 Find 50% of £360	Question 11 Round 3291 to the nearest 10	Question 12 Round 1928 to the nearest 100
Question 13 Work out $86 \times 6 =$	Question 14 Work out $171 \times 2 =$	Question 15 Simplify $7y - 4y - 5y$	Question 16 Simplify $8a + 4b + 5a + 3b$
Question 17 Work out $12389 + 9125 =$	Question 18 Work out $29494 + 3633 =$	Question 19 Work out $34 - 3 \times 4$	Question 20 Work out $21 - 5 \times 2$

Tara's Taxis charge a fixed fee of £1.50 and then 60p per mile for the first 5 miles travelled. Any additional miles travelled are charged at a rate of 45p per mile.

Dani uses Tara's Taxis and pays £7.65 for her journey. How many miles did Dani travel?

The Sudoku Puzzle Challenge

Complete the Sudoku puzzle so that each and every row, column, and region contains the numbers one through nine only once.

3		1					2	
6				8			4	
		7			1	5		3
				7	4	9	6	
2			3		8			1
	7	9	6	5				
8		5	4			3		
	1			3				4
	9					8		5

1. 5% of 400	2. $66 \div 11$	3. $81.3 + 32$	4. $95.8 - 73.6$	5. 45% of 270	6. 35% of 300	7. 0.4×4	8. 0.5×0.3
9. 65% of 340	10. 10% of 420	11. 3% of 260	12. 5% of 220	13. 11×5	14. 11×2	15. $60 + 55.9$	16. 45% of 430
17. $93.89 + 78.5$	18. 0.8×12	19. $20 \div 4$	20. $99.31 + 59$	21. $43.76 + 6.66$	22. 85% of 70	23. 5% of 190	24. 2% of 80
25. 3% of 170	26. 85% of 290	27. $16 \div 2$	28. $63.71 + 51$	29. 45% of 420	30. 45% of 40	31. 80% of 570	32. 65% of 80
33. $86.11 - 75.91$	34. 70% of 450	35. 70% of 250	36. 2% of 230	37. $31 - 13.84$	38. 5% of 200	39. 7×2	40. 11×7

SCORE

NUMBER-UP

TIME

Countdown Challenge

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50

75

25

100

1

2

Maths – Week 6

Question 1 Write in figures : four thousand, four tens and seven units	Question 2 Write in figures : twenty thousand, nine hundred and two units	Question 3 List the factors of 48	Question 4 List the factors of 36
Question 5 Work out $472 \times 100 =$	Question 6 Work out $58 \times 10 =$	Question 7 Simplify $\frac{5}{25}$	Question 8 Simplify $\frac{9}{15}$
Question 9 Find 75% of £580	Question 10 Find 75% of £420	Question 11 Round 3986 to the nearest 100	Question 12 Round 6369 to the nearest 1000
Question 13 Work out $28 \times 8 =$	Question 14 Work out $750 \times 5 =$	Question 15 Simplify $9c - 3c + 4c$	Question 16 Simplify $9a + 5b + 6a + 3b$
Question 17 Work out $30099 + 18635 =$	Question 18 Work out $44233 + 37259 =$	Question 19 Work out $4 \times 5 - 5$	Question 20 Work out $3 \times 3 - 5$

Sam withdraws some money from his bank account. He spends $\frac{1}{5}$ of this money on a present for his sister. He gives 25% of the money to his mum.

If Sam has £44 left, how much did he spend on a present for his sister?

The Sudoku Puzzle Challenge

Complete the Sudoku puzzle so that each and every row, column, and region contains the numbers one through nine only once.

3		8						4
		1		7		8		2
		2	4		8		9	3
	3		2		1			
	5						8	
			9		7		6	
4	8		1		2	5		
7		5		9		1		
1						4		8

1. 25% of 470	2. $121 \div 11$	3. 5×1.2	4. 90% of 290	5. $46.1 - 17.6$	6. 30% of 560	7. $59.5 + 16.6$	8. $46.34 - 46.1$
9. 9% of 160	10. 45% of 360	11. 1.1×3	12. 0.7×7	13. $97.26 - 0$	14. 8% of 560	15. 60% of 310	16. 55% of 350
17. 5% of 450	18. $59 + 14.71$	19. $41 + 21.6$	20. 90% of 410	21. $67.68 + 52.8$	22. 7×1.2	23. 8% of 310	24. $96 \div 8$
25. 2×6	26. 45% of 140	27. $37.19 - 20.82$	28. $24 \div 6$	29. 30% of 430	30. 5% of 230	31. 1.1×0.6	32. 7% of 180
33. 40% of 40	34. $89 + 87.8$	35. 4×2	36. 65% of 460	37. 2% of 230	38. 12% of 150	39. 35% of 290	40. $54.1 + 17.8$

SCORE

NUMBER-UP

TIME

Countdown Challenge

The challenge is to use the numbers available and the four standard operations (addition, subtraction, multiplication and division) to hit the target.

Each card can only be used once. It may not be necessary to use all the cards.

934

5	2	9	6	9	3
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Maths – Week 7

Question 1 Write in figures : one hundred and sixty thousand, six tens and six units	Question 2 Write in figures : nine thousand, three hundreds and five units	Question 3 List the factors of 51	Question 4 List the factors of 45
Question 5 Work out $100 \times 1000 =$	Question 6 Work out $68 \times 100 =$	Question 7 Simplify $\frac{9}{21}$	Question 8 Simplify $\frac{9}{63}$
Question 9 Find 25% of £720	Question 10 Find 75% of £680	Question 11 Round 7841 to the nearest 100	Question 12 Round 8343 to the nearest 1000
Question 13 Work out $22 \times 4 =$	Question 14 Work out $435 \times 2 =$	Question 15 Simplify $9a - 2a - 3a$	Question 16 Simplify $8a + 4b + 4a + 3b$
Question 17 Work out $25357 + 6694 =$	Question 18 Work out $14235 + 2374 =$	Question 19 Work out $8 \times 4 - 5$	Question 20 Work out $10 + 8 \times 2$

Daniel is given his wages.
 He spends 40% of his wages.
 He gives $\frac{1}{4}$ of his wages to his mum.
 He saves the rest of his wages.
 If Daniel gave £30 to his mum, how much money did he save?

The Sudoku Puzzle Challenge

Complete the Sudoku puzzle so that each and every row, column, and region contains the numbers one through nine only once.

8	5		1			4		
	6						2	7
		9	5	6				
7	9		8		5	2		
		2				8		
		8	3		2		9	6
				5	1	3		
9	8						7	
		3			6		4	5

1. 70% of 470	2. 11% of 440	3. $48 \div 12$	4. $42 \div 7$	5. $53 - 31.69$	6. 35% of 600	7. 25% of 40	8. $41 + 29.07$
9. $82 + 72$	10. 8×0.5	11. 8% of 270	12. 5% of 270	13. 8% of 340	14. 3% of 490	15. 20% of 330	16. $86.04 + 16.2$
17. 45% of 90	18. 90% of 240	19. 7×0.6	20. 65% of 280	21. 0.5×3	22. $68.5 - 47$	23. 65% of 260	24. $45 \div 9$
25. $83 + 57.39$	26. 35% of 410	27. 7% of 210	28. $96 - 10$	29. 50% of 340	30. 40% of 350	31. 0.6×3	32. $76 + 13$
33. 0.8×7	34. 9% of 210	35. $69.5 + 41.17$	36. $62 - 31$	37. 8% of 40	38. 80% of 440	39. 75% of 120	40. 0.7×2

SCORE

NUMBER-UP

TIME







Countdown Challenge






The challenge is to use the numbers available and the four standard operations (addition, subtraction, multiplication and division) to hit the target.

Each card can only be used once. It may not be necessary to use all the cards.

921

50	5	10	1	8	10
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CHALLENGE 	
	<p>"I like the challenge of trying different things and wondering whether it's going to work or whether I'm going to fall flat on my face."</p> <p><i>Johnny DEPP</i></p>
EFFORT 	
	<p>"There's no elevator to success; you have to take the stairs."</p> <p><i>ANONYMOUS</i></p>
RESILIENCE 	
	<p>"Winners never quit and quitters never win."</p> <p><i>Vince LOMBARDI</i></p>

LEARNING FROM MISTAKES 	
	<p>"I have not failed. I've just found 10,000 ways that won't work."</p> <p><i>Thomas EDISON</i></p>
HIGH STANDARDS 	
	<p>"Aim for the moon. If you miss, you may hit a star."</p> <p><i>W Clement STONE</i></p>
...YET! 	
	<p>"If you're tempted to say 'I can't' be brave enough to add 'yet.'"</p> <p><i>ANONYMOUS</i></p>



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