

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

Question 1	Question 2	Question 3	Question 4
Write in figures : thirteen thousand,	Write in figures : seventy seven	List the factors of 51	List the factors of 36
five hundred and two units	thousand, eight tens and three units		
Question 5 Work out 7 × 10 =	Question 6 Work out 10 × 10 =	Question 7 Simplify 8	Question 8 Simplify $\frac{12}{42}$
		Simplify $\frac{8}{16}$	3111p111y 42
Question 9	Question 10	Question 11	Question 12
Find 50% of £180	Find 25% of £120	Round 2084 to the nearest 100	Round 3372 to the nearest 10
Question 13	Question 14	Question 15	Question 16
Work out 86 × 8 =	Work out 630 × 9 =	Simplify 5c + 5c + 6c	Simplify 10a + 2b + 8a + 7b
Question 17	Question 18	Question 19	Question 20
Work out 39253 + 15736 =	Work out 30730 + 18364 =	Work out 8 × 2 - 5	Work out 6 + 11 × 3

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

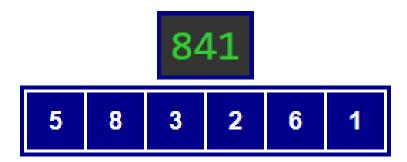
Find the minimum and maximum possible totals for the money Emily has?

The Sudoku Puzzle Challenge

	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.	2.	3.	4.	5.	6.	7.	8.
60% of 40	35% of 190	10% of 470	40% of 510	99.52 - 81.6	73.62 + 39.2	5 × 0.9	2 × 1.2
9.	10.	11.	12.	13.	14.	15.	16.
91 + 46.69	40 ÷ 10	8% of 250	60% of 460	3% of 350	2 × 1.1	80% of 60	85% of 460
31+40.03	40 + 10	8/8 01 230	00% 01 400	3/001330	2 ^ 1.1	80% 01 00	65/6 01 400
17.	18.	19.	20.	21.	22.	23.	24.
89.4 - 89.1	6 × 0.7	9% of 490	65% of 400	49 + 1.4	0.4 × 0.5	20 + 1.6	81 ÷ 9
25.	26.	27.	28.	29.	30.	31.	32.
50% of 230	65% of 30	30% of 140	7×7	8 × 0.8	37.97 - 34	10% of 390	90 ÷ 9
33.	34.	35.	36.	37.	38.	39.	40
90% of 540	71 + 17.64	7% of 320	4% of 530	30.78 - 21.4	8% of 310	90% of 190	59 + 18.3
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The challenge is to use the numbers available and the four standard operations (addition, subtraction, multiplication and division) to hit the target.



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

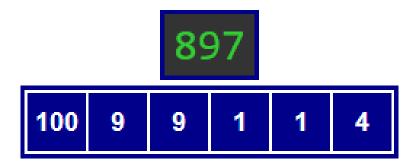
How much money does Jacob have?

The Sudoku Puzzle Challenge

	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.	3.	4.	5.	6.	7.	8.
2% of 400	85% of 530	55.4 - 53.59	20% of 40	36.4 - 29	54 + 11.7	35% of 20	2 × 0.3
9.	10.	11.	12.	13.	14.	15.	16.
30% of 370	65% of 20	6÷3	1.2 × 3	5×3	60% of 170	60% of 210	2 × 0.4
17.	18.	19.	20.	21.	22.	23.	24.
55.54 - 13.76	81+1	3% of 500	3% of 510	70% of 140	4% of 350	75% of 420	20% of 510
25.	26.	27.	28.	29.	30.	31.	32.
38.66 + 8.84	3×5	30 ÷ 3	50% of 510	15% of 400	70 - 22.4	0.8 × 4	71.8 + 17.5
33.	34.	35.	36.	37.	38.	39.	40
74.93 + 11.4	45% of 70	12% of 560	10% of 330	0.5 × 7	5% of 170	99.79 + 14.58	
74.55 11.4	4570 01 70	1270 01 000	1070 01 000	0.5 4 7	5,001170	33.73 . 14.30	11/00/30
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The challenge is to use the numbers available and the four standard operations (addition, subtraction, multiplication and division) to hit the target.



Question 1	Question 2	Question 3	Question 4
Write in figures : fifteen thousand, six	Write in figures : six thousand, seven	List the factors of 42	List the factors of 38
hundred and three units	hundred and nine units		
Question 5	Question 6	Question 7	Question 8
Work out 734 × 10 =	Work out 49 × 100 =	24	
Work out 734 × 10 -	Work out 49 × 100 =	Simplify $\frac{24}{36}$	Simplify $\frac{5}{25}$
Question 9	Question 10	Question 11	Question 12
Find 50% of £520	Find 25% of £580	Round 4789 to the nearest 100	Round 8671 to the nearest 10
Question 13	Question 14	Question 15	Question 16
Work out 74 × 9 =	Work out 493 × 3 =	Simplify 5x - 4x - 6x	Simplify 8a + 4b + 6a + 6b
Question 17	Question 18	Question 19	Question 20
Work out 22960 + 20143 =	Work out 16489 + 8932 =	Work out 29 - 11 × 4	Work out 2 × 2 + 5
WOIN OUL 22300 + 20143 -	WOIR OUT 10403 + 0332 -	WOIN OUT 25 - 11 × 4	WOIN OUL Z ^ Z + 3

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.

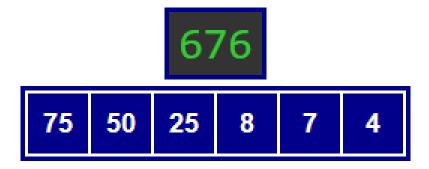
Assuming he sells all of his pens calculate his total profit.

The Sudoku Puzzle Challenge

			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.	2.	3.	4.	5.	6.	7.	8.
55% of 360	20% of 490	45.4 + 19	91 + 8	15% of 300	8×5	30% of 370	80% of 230
9.	10.	11.	12.	13.	14.	15.	16.
9% of 530	11% of 350	76.58 - 4.6	8 × 0.7	92.22 + 4.6	65% of 210	0.4 × 6	2 × 0.7
17.	18.	19.	20.	21.	22.	23.	24.
6% of 580	0.9 × 1.1	80% of 490	12 ÷ 6	8% of 540	60% of 350	53 - 27.87	20% of 30
25.	26.	27.	28.	29.	30.	31.	32.
50% of 60	85 + 23	0.4 × 0.9	74.4 + 11	67.66 - 13	63 + 8.7	5% of 100	5% of 230
33.	34.	35.	36.	37.	38.	39.	40
11×7	55.29 - 20	40 ÷ 5	8% of 220	10% of 570	24 ÷ 6	40% of 500	90% of 480
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The challenge is to use the numbers available and the four standard operations (addition, subtraction, multiplication and division) to hit the target.



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

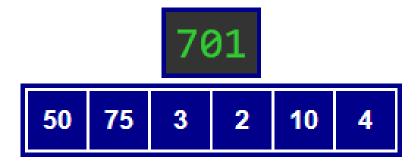
Which company would be cheapest and by how much for a 12 mile journey?

The Sudoku Puzzle Challenge

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



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

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.	2.	3.	4.	5.	6.	7.	8.
5% of 400	66 ÷ 11	81.3 + 32	95.8 - 73.6	45% of 270	35% of 300	0.4 × 4	0.5 × 0.3
9.	10.	11.	12.	13.	14.	15.	16.
65% of 340	10% of 420	3% of 260	5% of 220	11×5	11×2	60 + 55.9	45% of 430
0570 01 540	10/001420	370 01 200	370 01 220	11.10	11.72	00 1 33.3	4570 01 450
17.	18.	19.	20.	21.	22.	23.	24.
93.89 + 78.5	0.8 × 12	20 ÷ 4	99.31 + 59	43.76 + 6.66	85% of 70	5% of 190	2% of 80
25.	26.	27.	28.	29.	30.	31.	32.
3% of 170	85% of 290	16 ÷ 2	63.71 + 51	45% of 420	45% of 40	80% of 570	65% of 80
33.	34.	35.	36.	37.	38.	39.	40
86.11 - 75.91	70% of 450	70% of 250	2% of 230	31 - 13.84	5% of 200	7×2	11×7
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The challenge is to use the numbers available and the four standard operations (addition, subtraction, multiplication and division) to hit the target.



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

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.	2.	3.	4.	5.	6.	7.	8.
25% of 470	121 ÷ 11	5 × 1.2	90% of 290	46.1 - 17.6	30% of 560	59.5 + 16.6	46.34 - 46.1
9.	10.	11.	12.	13.	14.	15.	16.
9% of 160	45% of 360	1.1 × 3	0.7 × 7	97.26 - 0	8% of 560	60% of 310	55% of 350
17.	18.	19.	20.	21.	22.	23.	24.
5% of 450	59 + 14.71	41 + 21.6	90% of 410	67.68 + 52.8	7 × 1.2	8% of 310	96 ÷ 8
25.	26.	27.	28.	29.	30.	31.	32.
2 × 6	45% of 140	37.19 - 20.82	24 ÷ 6	30% of 430	5% of 230	1.1 × 0.6	7% of 180
33.	34.	35.	36.	37.	38.	39.	40
40% of 40	89 + 87.8	4 × 2	65% of 460	2% of 230	12% of 150	35% of 290	54.1 + 17.8
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The challenge is to use the numbers available and the four standard operations (addition, subtraction, multiplication and division) to hit the target.



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

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.	2.	3.	4.	5.	6.	7.	8.
70% of 470	11% of 440	48 ÷ 12	42 ÷ 7	53 - 31.69	35% of 600	25% of 40	41 + 29.07
9.	10.	11.	12.	13.	14.	15.	16.
82 + 72	8 × 0.5	8% of 270	5% of 270	8% of 340	3% of 490	20% of 330	86.04 + 16.2
17.	18.	19.	20.	21.	22.	23.	24.
45% of 90	90% of 240	7 × 0.6	65% of 280	0.5 × 3	68.5 - 47	65% of 260	45 ÷ 9
25.	26.	27.	28.	29.	30.	31.	32.
83 + 57.39	35% of 410	7% of 210	96 - 10	50% of 340	40% of 350	0.6 × 3	76 + 13
33.	34.	35.	36.	37.	38.	39.	40
0.8 × 7	9% of 210	69.5 + 41.17	62 - 31	8% of 40	80% of 440	75% of 120	0.7 × 2
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The challenge is to use the numbers available and the four standard operations (addition, subtraction, multiplication and division) to hit the target.







St Ives School

Higher Tregenna

St Ives

Cornwall

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