

Summer Holiday Weekly Maths Challenges

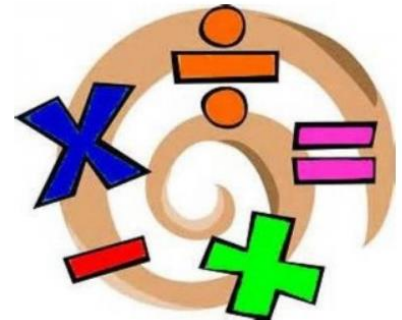
Challenge yourself each week during the summer holidays

How many can you complete?



Answers are at the end so you can check your solutions

No cheating!



Week 1



Copy and complete the cross number puzzle.

Clues across

1. $413 - 61$
3. 17×4
5. $3 \times 3 \times 3 \times 3$
6. 9×16
7. Half of 980
8. $1003 - 985$
10. $472 + 256$
11. $712 - 618$
12. $4006 - 2994$

Clues down

1. $5 \times 11 \times 7$
2. 17×3
3. $7 + 17 + 117 + 499$
4. $173 - 89$
6. $9 \times 12 - 89$
7. $5002 - 121$
8. $28 + 29 + 31 + 32$
9. 9×49
10. $(16 \times 5) - 9$

1	2			3	4
5			6		
		7			
	8				9
10				11	
12					

Week 2



Copy and complete the multiplication squares. The numbers outside the square are always 2, 3, 4, 5, 6, 7, 8, 9.

(a)

	8	2	7	
5				35
	32			
3	27			
6				

(b)

	4	7	3	8	
5					
	42				
2					

(c)

	5	8	2	
	28		56	
6				
9				

Week 3



In the next three squares you may have the same number at the top and along the side of the square and some numbers are not used. You can only use the numbers 2, 3, 4, 5, 6, 7, 8, 9.

(a)

		56		
				15
			36	
	14	49		
30				25

(b)

			18	48
		49		
			9	
	45			40
16		28		

(c)

	42	28		
	48		64	
15			40	
				81
			24	

Week 4



1) How many £10 notes are there in £760 000?

2) Answer true or false:

(a) $7 + 8 + 9 + 10 + 11 = 5 \times 9$

(b) $1 + 2 + 3 + \dots + 14 + 15 = 15 \times 8$

(c) $\frac{(100 - 75) \times 4}{10} = (20\,000 - 19\,000) \div 100$

3) A determined frog is climbing a greasy rope. It takes $8\frac{1}{2}$ seconds to climb up and then half a second to slide down.

How many complete up and down journeys can he make in three minutes?



Week 5



1) Work out the missing numbers.

(a) $927 + \square = 1001$

(b) $542 - \square = 231$

(c) $\square \times 7 = 1645$

(d) $\square \div 9 = 24$

(e) $\square - 950 = 1222$

(f) $2000 \div \square = 50$

2) Here are five number cards:



(a) Use all the cards to make the largest possible *odd* number.

(b) Use all the cards to make the smallest possible *even* number.

Answers:



Week 1

¹ 3	² 5	2		³ 6	⁴ 8
⁵ 8	1		⁶ 1	4	4
5		⁷ 4	9	0	
	⁸ 1	8			⁹ 4
¹⁰ 7	2	8		¹¹ 9	4
¹² 1	0	1	2		1

Week 2

(a)

	9	8	2	7
5	45	40	10	35
4	36	32	8	28
3	27	24	6	21
6	54	48	12	42

(b)

	4	7	3	8
5	20	35	15	40
9	36	63	27	72
6	24	42	18	48
2	8	14	6	16

(c)

	4	5	8	2
3	12	15	24	6
7	28	35	56	14
6	24	30	48	12
9	36	45	72	18

Week 3

(a)

	6	2	7	4	5
8	48	16	56	32	40
3	18	6	21	12	15
9	54	18	63	36	45
7	42	14	49	28	35
5	30	10	35	20	25

(b)

	4	9	7	3	8
6	24	54	42	18	48
7	28	63	49	21	56
3	12	27	21	9	24
5	20	45	35	15	40
4	16	36	28	12	32

(c)

	3	6	4	8	9
7	21	42	28	56	63
8	24	48	32	64	72
5	15	30	20	40	45
9	27	54	36	72	81
3	9	18	12	24	27

Answers:



Week 4

1. 76 000

2. (a) T

(b) T

(c) T

3. 20

Week 5

1. (a) 74

(b) 311

(c) 235

(d) 216

(e) 2172

(f) 40

2. (a) 98 643

(b) 34 698