



UNITED KINGDOM MATHEMATICS TRUST

CROSSNUMBER

- Time allowed is 20 minutes.
- Some clues can be answered without reference to any other clues. Some clues are connected so you may not be able to answer these straight away.
- *One* mark is given for each correct digit at the first time of being presented to your supervising teacher.
- There are two practice sheets containing the crossnumber clues, and one answer grid. Your final answers should be written on the answer grid.
- You may ask your teacher to mark your crossnumber at any time even if it is not complete. However, if any digit is incorrect it will be replaced with the correct digit and you will not score any marks for that digit.

1		2		3		4		5
		6						
7						8	9	
			10		11			
12	13				14			
			15	16				
17		18				19		20
				21				
22						23		

Across

- One seventh of 16 Down
- The sum of the first 10 square numbers.
- The sum of the digits is 13.
- 6 across in reverse.
- 3 Down – 2 Down + 92.
- 3 times a square number.
- 4 Down x 9.
- 25 times 17 Across.
- A multiple of 60.
- This number has a factor of 37.
- The square of a prime number that is often called unlucky!!
- The total number of degrees of the four angles of a quadrilateral.
- $\frac{1}{5}$ of 16 Down – 222.
- The difference between 22 Across and 5 Down is the last two digits of 23 Across.

Down

- 13 Down x 5 then add 7.
- $\frac{1}{5}$ of 14 Across.
- 16 Down – 12 Across + 17 Down.
- 17 Across x 3 then add 18 Down – 100.
- A square number.
- 17 Across + 17 Down.
- The smallest 3- digit cube number.
- 1 Across – 4 Across.
- $\frac{1}{5}$ of 1 Across, and it is a square number!
- 4 Across times 11.
- Start with the number 70, multiply by 3, then add 45, divide by 5 then subtract 37. Square your answer.
- Take away a 2-digit square number from 17 Down.
- $\frac{1}{9}$ of 15 Across + $\frac{1}{10}$ of 21 Across + $\frac{1}{20}$ of 11 Down.
- 4 times 17 Across plus 2 Down.

1		2		3		4		5
		6						
7						8	9	
			10		11			
12	13				14			
			15	16				
17		18				19		20
				21				
22						23		

Across

- One seventh of 16 Down
- The sum of the first 10 square numbers.
- The sum of the digits is 13.
- 6 across in reverse.
- $3 \text{ Down} - 2 \text{ Down} + 92$.
- 3 times a square number.
- $4 \text{ Down} \times 9$.
- 25 times 17 Across.
- A multiple of 60.
- This number has a factor of 37.
- The square of a prime number that is often called unlucky!!
- The total number of degrees of the four angles of a quadrilateral.
- $\frac{1}{2}$ of 16 Down $- 222$.
- The difference between 22 Across and 5 Down is the last two digits of 23 Across.

Down

- $13 \text{ Down} \times 5$ then add 7.
- $\frac{1}{5}$ of 14 Across.
- $16 \text{ Down} - 12 \text{ Across} + 17 \text{ Down}$.
- $17 \text{ Across} \times 3$ then add $18 \text{ Down} - 100$.
- A square number.
- $17 \text{ Across} + 17 \text{ Down}$.
- The smallest 3-digit cube number.
- $1 \text{ Across} - 4 \text{ Across}$.
- $\frac{1}{3}$ of 1 Across, and it is a square number!
- $4 \text{ Across} \times 11$.
- Start with the number 70, multiply by 3, then add 45, divide by 5 then subtract 37. Square your answer.
- Take away a 2-digit square number from 17 Down.
- $\frac{1}{9}$ of 15 Across $+ \frac{1}{10}$ of 21 Across $+ \frac{1}{20}$ of 11 Down.
- 4 times 17 Across plus 2 Down.

Crossnumber Answer Grid

School Name: _____

Team Number: _____

1		2		3		4		5	Marks (7)
		6							Marks (6)
7						8	9		Marks (7)
			10		11				Marks (4)
12	13				14				Marks (8)
			15	16					Marks (4)
17		18				19		20	Marks (7)
				21					Marks (6)
22						23			Marks (7)

TOTAL (out of 56) = _____ + 4

SCORE = _____