KES Year 4 Maths Challenge - Crossnumber Instructions

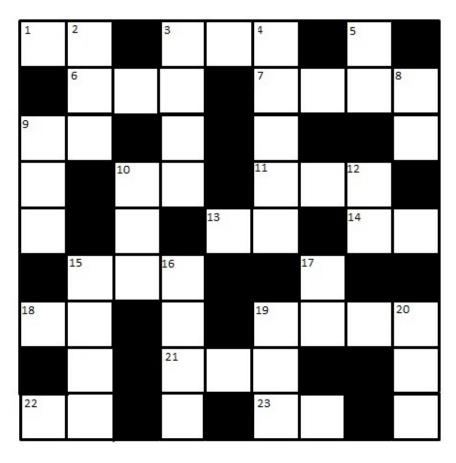
Rules

- Pupils should attempt questions in pairs. Each pair will have a copy of the clues and an answer grid. There will also be a 'mastercopy' which is in front of the teacher.
- When a pair think they have an answer they write it on the mastercopy. It is immediately checked by the teacher. The teacher (who will have a sheet with the solutions on) ticks every correct digit and crosses every incorrect digit. The teacher will also correct every incorrect digit, writing the right answer in its place.
- The correct answer is then shown to the other pair and both pairs can enter it onto their copy..
- The team's score is the number of ticks that they have achieved between them at the end of the round.

Hints

- Only answer questions which you have narrowed down to one possible answer.
- It should be possible to complete the grid without making any guesses. However, if you get completely stuck this might be a worthwhile strategy to get you going again.
- Sometimes it might be possible to get a bit of an answer without working out the whole number. You may enter parts of answers into the mastercopy and have them marked by the teacher.

KES Year 4 Maths Challenge - Example Crossnumber



Across

- 1. The number of minutes between 9:52am and 11:11am
- 3. 3 children have [10 across] cards each. How many cards in total?
- 6. [11 across] + [15 across] + [18 across]
- 7. If I start with 64 and I keep doubling it I will get to this number
- 9. A multiple of 11
- 10. [17 down] + 5
- 11. The largest number that is smaller than 700
- 13. If I divide this by [18 across] I get a whole number (with no remainder)
- 14. Five businessmen shake hands with each other. How many handshakes in total?
- 15. [23 across] multiplied by itself
- 18. If I multiply this number by four and subtract seven I get 41.
- 19. This number is the same forwards and backwards
- 21. $3 \times [9 \text{ across}]$
- 22. If I have 6 different shirts and 3 different trousers, how many possible outfits can I make?
- 23. The sum of the digits is 2 and both digits are the same

Down

- 2. The sum of the digits is 26
- 3. Halfway between [15 down] and 1300
- 4. $[15 \text{ down}] \times 20$
- 5. The difference between [14 across] and [9 across]
- 8. The number of squares with 2cm sides that could fit into a square with 16cm sides without any overlapping
- 9. [15 down] [21 across]
- 10. A number between 370 and 380
- 12. A multiple of 13
- 15. Each digit is double the one before it
- 16. The number of laps of a 400m track in a 10000m race + 1000
- 17. $[20 \text{ down}] \div 6$
- 19. A multiple of 19
- 20. A multiple of 87

KES Year 4 Maths Challenge - Example Crossnumber Solutions

7	² 9		³ 1	0	4 2		⁵ 8	
	⁶ 8	3	2		⁷ 4	0	9	8 6
9 9	9		7		9			4
5		3	4		6	9	9	
1		7		¹³ 6	0		141	0
	15	2	16			2		
18 1	2		0		¹⁹ 1	9	9	201
	4		212	9	7			7
²² 1	8		5		²³ 1	1		4