Maths Game

Hit the Target

A game for 2 or more players

You will need:

- Two sets of 0 - 9 digit cards (one for each player)
- A set of target cards cut up

Instructions

Place the target cards face down on the table and mix them up.

Each player takes a set of the 0 – 9 digit cards and chooses five of the cards (keeping them secret from their opponent!) They put the other five cards away for later.

Player one chooses a target card and turns it over, for example **number closest to 700**.

They then choose **three** of their cards to make a number to match the instructions on the target card. The player who is closest wins the target card.

Play continues using each of the target cards with players choosing any three of their five digits each time.

The winner is the player with the most target cards at the end of the game.

Information for Parents/Carers

When children are selecting their five numbers, they may be entirely at random. There is no right or wrong choice regarding their choices. However, if they choose all odd, all even, all high value digits, or all low value digits, they will find it hard to fulfil some of the targets. If they don't win many target cards on the first game, they may choose different cards on the next game and will probably adjust their choices based on what they've seen.

If your child makes a number to match the target, ask them how they know it is the closest number to the target. It is ok to see their five cards after they have chosen them. This way, you will be able to help them if their three-digit number is not quite correct.

It may not be possible to make some of the targets with the choice of cards, for example, if the target says greatest value multiple of 5 and the child has not picked a 5 or a 0 in their selection. This is ok. If neither player can make a target number, discard the target card and choose another one.

It is possible for both players to win the same target card, for example if the target says nearest to 50 and one player makes 49 and the other makes 51. In this case, players can get the card (or a representative of it, such as a coin or another piece of paper) each.

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The most complex target is likely to be that of nearest to … If the target says nearest to 400, then 398 is closer to 400 than 417, even though the second number has 4 hundreds, the same as the target. Children may need some support with this.

When making numbers with two or more digits, make sure that 0 is not used as the first digit of the number, for example 024. 0 acts as a place holder for an absence of an amount and is therefore not needed at the start of a number.

As a guide to the numbers to work with for your child:

Reception: Choose four cards from the pack to use as single digit numbers; set of target cards 1

Year One: Choose five cards from the pack to make a two-digit number; set of target cards 2

Year Two: Choose five cards from the pack to make a two-digit number; set of target cards 3

Year Three: Choose five cards from the pack to make a three-digit number; set of target cards 4

Year Four: Choose five cards from the pack to make a four-digit number; set of target cards 5

Year Five: Choose six cards from the pack to make up to a six-digit number; set of target cards 6

Year Six: Choose seven cards from the pack to make up to a seven-digit number; set of target cards 7

To see this game in action, you can watch it on the LPDS YouTube channel here:

https://www.youtube.com/watch?v=bhK0-4ORFXU

Lancashire Mathematics Team (2020)

Maths Game

0 – 9 Digit Cards

0	1	2	3	4
5	6	7	8	9

0	1	2	3	4
5	6	7	8	9

Maths Game

Greatest value number	**Smallest value number**	**Number nearest to 5**
Number nearest to 0	**Number nearest to 7**	**Number nearest to 10**
Greatest value number less than 6	**Greatest value number less than 3**	**Smallest value number more than 4**
Smallest value number more than 7	**Greatest value number between 4 and 7**	**Least value number between 2 and 5**

Maths Game

Target Cards (Set 2): Year 1

Greatest value odd number	**Least value 2-digit number**	**Number nearest to 70**
Greatest value number with 5 ones	**Even number between 42 and 47**	**Number nearest to 36**
Greatest value 2-digit number	**Least value odd number**	**Greatest value even number**
Least value even number	**Number nearest to 100**	**Odd number between 22 and 28**
Number nearest to 50	**Number nearest to 10**	**Greatest value number more than 40**

Maths Game

Greatest value odd number	**Least value 2-digit number**	**Number nearest to 76**
Greatest value multiple of 5	**Even number between 63 and 67**	**Least value number that rounds to 40 to the nearest 10**
Greatest value number that rounds to 70 to the nearest 10	**Least value odd number**	**Greatest value even number**
Least value even number	**Number nearest to 100**	**Least value multiple of 2**
Multiple of 10 nearest to 36	**Nearest to a multiple of 10**	**Number that is closest to 65 when 25 is added**

Maths Game

Greatest value odd number	**Least value 3-digit number**	**Number nearest to 770**
Greatest value multiple of 5	**Even number between 420 and 470**	**Least value number that rounds to 400 to the nearest 100**
Greatest value number that rounds to 760 to the nearest 10	**Least value odd number**	**Greatest even number**
Least value even number	**Number nearest to 1000**	**Least value 3-digit multiple of 2**
Multiple of 10 nearest to 364	**Nearest to a multiple of 100**	**Number that is closest to 650 when 250 is added**

Maths Game

Greatest value odd number	**Least value 4-digit number**	**Number nearest to 5,600**
Greatest value multiple of 5	**Even number between 3541 and 3547**	**Least value number that rounds to 4000 to the nearest 1000**
Greatest value number that rounds to 7600 to the nearest 10	**Least value odd number**	**Greatest value even number**
Least value even number	**Number nearest to 10,000**	**Least value 4-digit multiple of 2**
Multiple of 10 nearest to 3647	**Nearest to a multiple of 100**	**Number that is closest to 6500 when 2500 is added**

Maths Game

Greatest value odd number using all 6 cards	**Least value 4-digit number**	**Number closest to 75,000**
Greatest value 3-digit multiple of 3	**Most equivalent fractions** *(placing one digit over another to create each fraction)*	**Number closest to the Roman Numeral DCCLXV**
Least value number that rounds to 43,000 to the nearest thousand	**Greatest value even number between 4,200 and 4,700**	**Smallest obtuse angle**
Number of minutes closest to 8 hours *(convert 8 hours into minutes and make the number closest)*	**Greatest 3-digit common multiple of 2 and 3**	**Least value number between 300,000 and 500,000**
Number closest to 3 $\frac{1}{4}$ kg when converted into grams	**Most square numbers**	**Most prime numbers**

Maths Game

Greatest value odd number using all 7 cards	**Least value 4-digit number**	**Number closest to 770,000**
Greatest value 4-digit multiple of 3	**Most equivalent fractions** *(placing one digit over another to create each fraction)*	**Number closest to the Roman Numeral DCCLXV**
Least value number that rounds to 43,000 to the nearest thousand	**Greatest value even number between 4,200 and 4,700**	**Smallest obtuse angle**
Number of minutes closest to 8 hours *(convert 8 hours into minutes and make the number closest)*	**Greatest 3-digit common multiple of 2 and 3**	**Least value number between 3,000,000 and 5,000,000**
Number closest to $3\frac{1}{4}$ kg when converted into grams	**Most square numbers**	**Most prime numbers**