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I learn -





National Curriculum Maths Requirements

- Year 1
 - Count, read and write to 100 and identify one more, one less
 - Use number bonds to 20
 - Solve problems involving addition and subtraction, using objects and pictorial representations
 - Solve problems involving multiplication and division
 - Recognise, find and name $\frac{1}{2}$ $\frac{1}{4}$ of objects, shape or quantity
 - Solve practical problems for lengths, weight, capacity and time
 - Recognise and name common 2D and 3D shapes
 - Recognise and know the value of coins
 - Tell the time to o'clock and half past

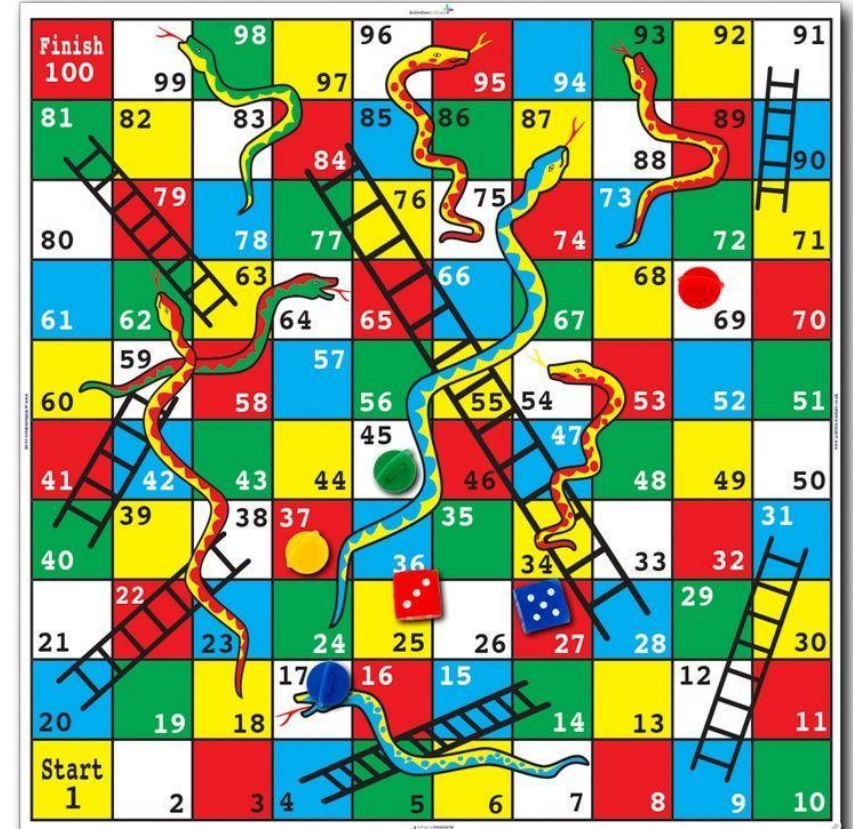
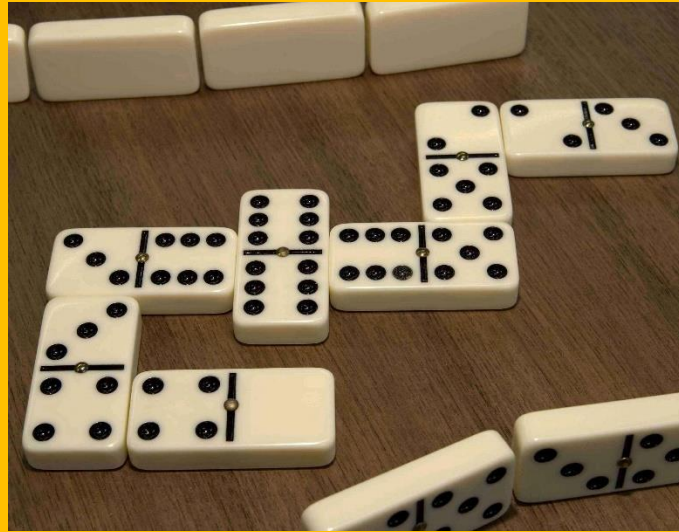


National Curriculum Maths Requirements

- Year 2
 - Count in steps of 2, 5 and 10 from 0
 - Recognise the place value of each digit in a 2 digit number
 - Compare and order numbers up to 100, using $<$ $>$ $=$
 - Solve problems involving addition and subtraction
 - Solve problems involving multiplication and division
 - Recall and use multiplication and division facts for the 2, 5 and 10 times tables
 - Recognise, find and name $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{2}{4}$ $\frac{3}{4}$ of lengths, objects, shapes or quantities
 - Solve practical problems for lengths, weight, capacity, money and time
 - Recognise and name common 2D and 3D shapes, describing their properties
 - Find different combinations of coins that equal the same amount of money
 - Tell the time to quarter to and quarter past
 - Interpret and construct pictograms, tallies, block diagrams and tables

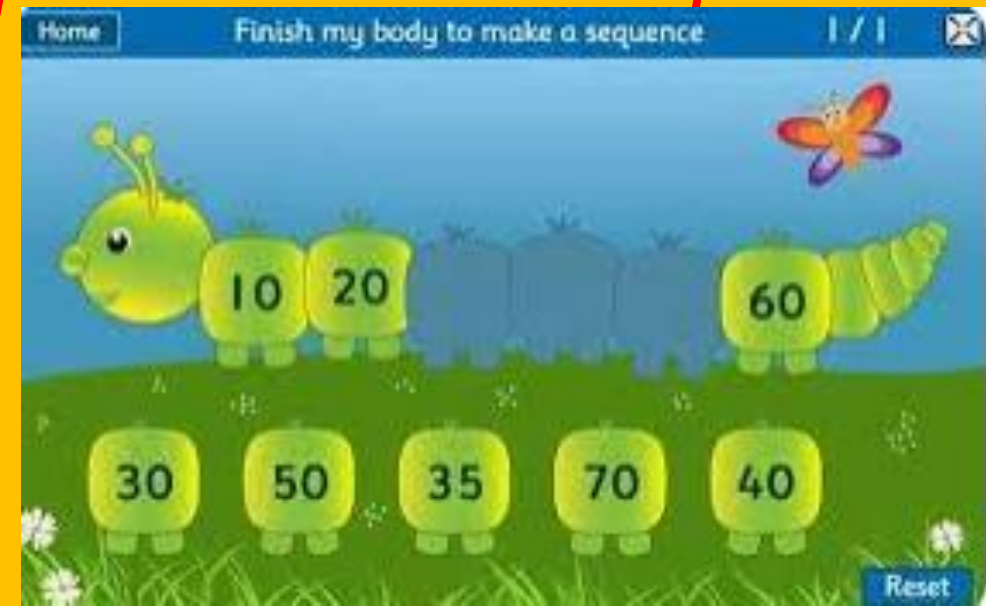
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Maths Games





Internet maths games to help



3-5 Years | 5-7 Years | 7-11 Years | 11-14 Years

Play these fun Maths Games for 5-7 year olds

Maths
English

IXL
Maths Practice

- Year 1
- Year 2
- Year 3
- Year 4

Choose a Category:

Counting | Ordering and Sequencing | Place Value, Odd and Even

Addition and Subtraction | Times Tables | Multiplication and Division | Money

Shapes | Measures | Data Handling | Problem Solving

Counting Games

Learning to count is fun with this range of free educational games for Key Stage 1 children. Start with the simple counting games and progress to numbers up to 100. There are also matching and sequencing numbers activities.

Today's Number (to 20)

Our Today's Number game can help early years children to learn the numbers to 20 in a fun way. The various activities help with number formation, recognition, ordering and counting.



Internet maths games to help

Number Games	
Caterpillar Ordering	https://www.topmarks.co.uk/r.aspx?sid=3218
Underwater Counting	https://www.topmarks.co.uk/r.aspx?sid=4685
Coconut Ordering Game	https://www.topmarks.co.uk/r.aspx?sid=5314
Place Value Basketball	https://www.topmarks.co.uk/r.aspx?sid=5350
Chopper Squad	https://www.topmarks.co.uk/r.aspx?sid=5318
Helicopter Rescue	https://www.topmarks.co.uk/r.aspx?sid=5308
Robot more or less	https://www.topmarks.co.uk/maths-games/robot-more-or-less

Number Bond Games	
Ways to make	https://www.topmarks.co.uk/Flash.aspx?f=WaystoMake
Curious George – Museum of 10	https://pbskids.org/curiousgeorge/busyday/ten/
Snowman Sums	https://www.ictgames.com/mobilePage/Christmas/snowman/
Save the Whale Game	https://www.topmarks.co.uk/r.aspx?sid=2938
Hit the Button Game – bonds to 10	https://www.topmarks.co.uk/r.aspx?sid=2453

Addition and Subtraction Games	
Funky Mummy Game	https://www.ictgames.com/mobilePage/funkyMummy/index.html
Subtraction to 10 Game	https://www.topmarks.co.uk/r.aspx?sid=5544
Smoothie Maths Game	https://www.ictgames.com/mobilePage/smoothie/
Space Jumps	https://www.ictgames.com/mobilePage/spaceJumps/
Addition Fruit Splat	https://www.sheppardsoftware.com/math/addition/fruit-splat-game/
Subtraction Fruit Splat	https://www.sheppardsoftware.com/math/subtraction/fruit-splat-game/
Arcademics Minus Mission	https://www.arcademics.com/games/mission
Arcademics Alien Addition	https://www.arcademics.com/games/alien
Addition Subtraction Ladder	https://www.starfall.com/h/addsub/addsub-ladder/?sn=math1--math0
Robot Addition	https://www.topmarks.co.uk/r.aspx?sid=5543
Addition to 10	https://www.topmarks.co.uk/r.aspx?sid=5542



Multiplication and Division Games	
Gordon Multiplication Game	https://www.topmarks.co.uk/Flash.aspx?f=multiplication
Mental Maths Train	https://www.topmarks.co.uk/maths-games/mental-maths-train
Archery Arithmetic	https://mathsframe.co.uk/en/resources/resource/399/Archery-Arithmetic-Multiplication
Hit the Button Game – Times tables	https://www.topmarks.co.uk/r.aspx?sid=2453

Measures Games	
Coin Game – Ordering and Sorting	https://www.topmarks.co.uk/money/coins-game
Toy Shop Money Game	https://www.topmarks.co.uk/money/toy-shop-money/
Turtle Diary Game - mass	https://www.turtlediary.com/game/heavy-and-light.html
Happy Camel Game	https://pbskids.org/peg/games/happy-camel
Mostly Postie	https://www.ictgames.com/mobilePage/mostlyPostie/
Telling the Time	https://mathsframe.co.uk/en/resources/resource/117/telling_the_time_in_words#
Hickory Dickory Time Game	https://ictgames.com/mobilePage/hickoryDickory/index.html

Shape / Fraction Games	
Shape Monsters	https://www.topmarks.co.uk/r.aspx?sid=5367
2D Shapes Sort	https://www.topmarks.co.uk/carroll-diagrams/2d-shapes
Symmetry Game	https://www.topmarks.co.uk/symmetry/symmetry-matching
Shape patterns	https://www.topmarks.co.uk/ordering-and-sequencing/shape-patterns
Fraction Firepit Game	https://www.ictgames.com/mobilePage/firepitFractions/index.html

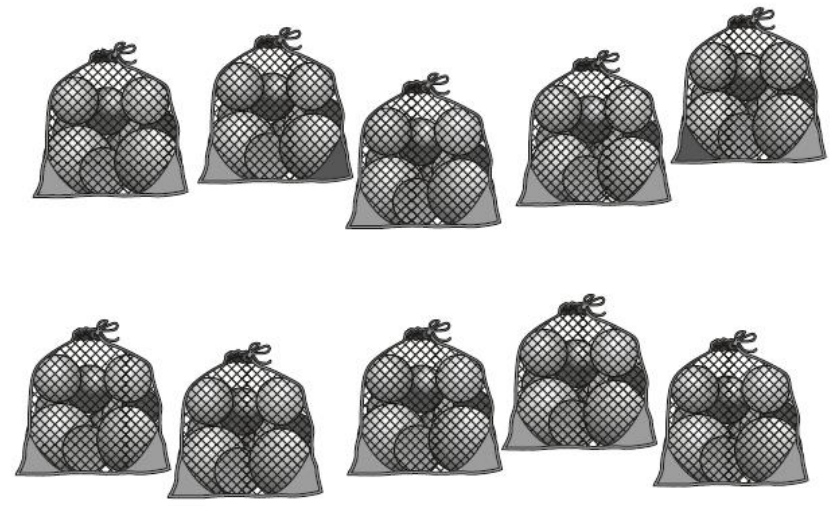
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Other maths activities to do at home



1 2 3 Year 2 Quizzes - Reasoning

10 Sita puts **10** balls in each bag.



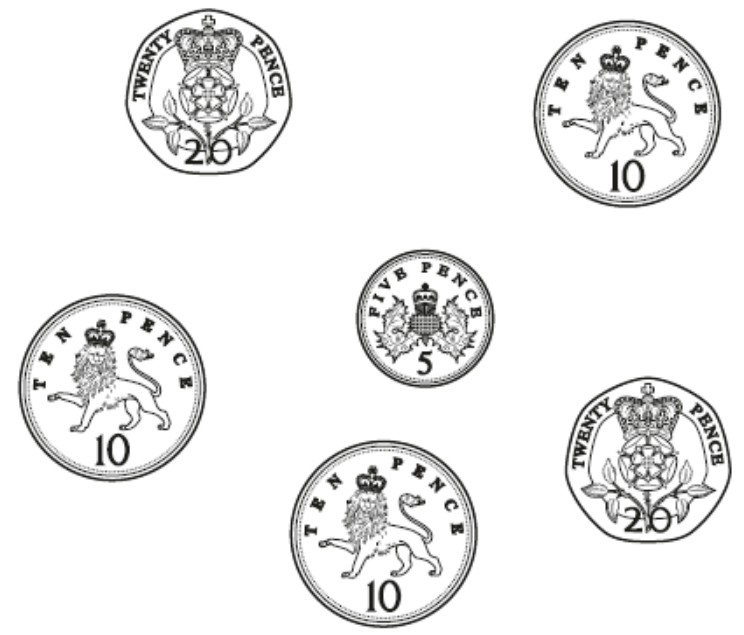
How many balls are in the bags **altogether**?

 balls

Sam has 55p.

Ben has 10p less than Sam.

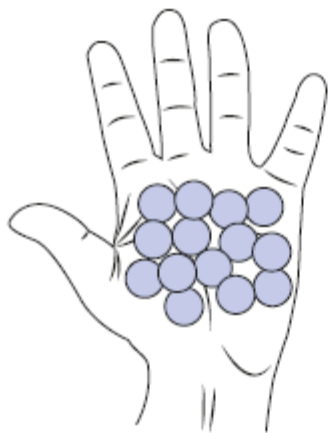
Tick the coins that **Ben** has.





Year 2 Quizzes - Reasoning

20 Amy has **21** counters altogether.
She has **14** counters in one hand.



How many counters does she have in the other hand?

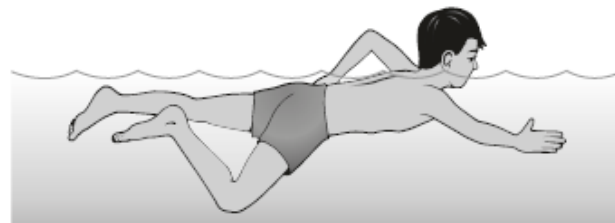
counters



1 mark

- Being able to work out the number sentence needed
- $21 = 14 + ?$
- $14 + ? = 21$
- Use of a number line to 'draw' the calculation
- Use of a bar model

26



One length of a swimming pool is **10** metres.

Abdul swims the length of the pool **4** times.

Abdul works out how many metres he swims altogether.

Circle the **two** calculations that Abdul can use.

$$10 + 4$$

$$4 \times 10$$



$$10 + 10 + 10 + 10$$





$$4 + 4 + 4 + 4$$





Year 2 Quizzes - Arithmetic

Addition	Subtraction
$8 + 6 = \square$	$12 - 7 = \square$
$4 + 5 + 6 = \square$	$10 - \square = 2$
$28 + \square = 35$	$63 - 10 - 10 = \square$
$21 + 40 = \square$	
Multiplication	Division
$9 \times 10 = \square$	$8 \div 2 = \square$
$3 \times 2 = \square$	$\frac{1}{2}$ of 16 = 
	$\frac{1}{4}$ of 12 = 

Addition	Subtraction
$52 + 7 = \square$	$56 - \square = 51$
$50 + \square = 80$	
$10 + 40 + 20 = \square$	
$69 + 11 = \square$	
$55 + 17 = \square$ 	$71 - 14 = \square$ 
Multiplication	Division
$8 \times 5 = \square$	$40 \div 10 = \square$
$6 \times 3 = \square$	$55 \div 5 = \square$
	$\frac{1}{3}$ of 30 = 
	$\frac{3}{4}$ of 20 = 

- Key strategies**
- Counting on from any 2 digit number using number bonds rather than counting on in 1s eg $52 + 7 = 59$ rather than $52 + 1 + 1 + 1 \dots$ Etc
 - Counting on in multiples of 10
 - Adding three multiples of 10 (relate to adding 3 units, number bonds to 10 and 100)
 - Bridging through 10 adding TU numbers, partitioning second number using number bonds where possible eg $69 + 10 + 1$; $55 + 10 + 5 + 2$. Number line recording supports fluency
 - Bridging through 10 when subtracting eg $71 - 10 - 1 - 3$. Number line recording supports fluency

- Key strategies**
- Linking counting in 5s to multiples of 5s and recording using X symbol
 - Counting in 3s and using this to work out multiples of 3 (not learning 3x table)
 - Understanding 'grouping' in division to interpret number sentence as 'how many groups of X'
 - Using a known fact to work out an unknown division fact. I know $50 \div 5 = 10$ so $55 \div 5$ will be 11
 - Finding a quarter (and knowing a quarter is half of a half) and that 3 quarters = $\frac{3}{4}$.
 - Knowing that finding a quarter and subtracting it from a number will leave $\frac{3}{4}$





Year 2 Teacher Judgement

Year 2 - Maths Teacher assessment framework 2022-2023				
Working towards the expected standard				
Read and write numbers in numerals up to 100 e.g. can write the numbers 14 and 41 correctly				
Partition a two-digit number into tens and ones to demonstrate an understanding of place value, though may use structured apparatus (eg. base 10) to support them				
Add and subtract two-digit numbers and ones and two-digit numbers and tens where no regrouping is required, explaining their method verbally, in pictures or using apparatus e.g. $23 + 5$; $46 + 20$, $16 - 5$, $88 - 30$				
Recall at least four of the six 2 number bonds for 10 and reason about associated facts (e.g. $6 + 4 = 10$, therefore $4 + 6 = 10$ and $10 - 6 = 4$)				
Count in twos, fives and tens from 0 and use this to solve problems				
Know the value of different coins				
Name some common 2-D and 3D shapes from a group of shapes or from pictures of the shapes and describe some of their properties (eg. triangles, rectangles, squares, circles, cuboids, cubes, pyramids and spheres)				
Working at the expected standard				
Read scales (in the form of a number line/practical measuring situation) in divisions of ones, twos, fives and tens.				
Partition any two-digit number into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus.				
Add and subtract any 2 two-digit numbers using an efficient strategy explaining their method verbally, in pictures or using apparatus eg. $48 + 35$; $72 - 17$				
Recall all number bonds to and within 10 and use these to reason with and calculate bonds to and within 20, recognising other associated additive relationships (eg. If $7 + 3 = 10$, then $17 + 3 = 20$; if $7 - 3 = 4$, then $17 - 3 = 14$; leading to if $14 + 3 = 17$, then $3 + 14 = 17$, $17 - 14 = 3$ and $17 - 3 = 14$)				
Recall multiplication and division facts for 2, 5 and 10 and use them to solve simple problems, demonstrating an understanding of commutativity as necessary				
Identify $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{4}$, $\frac{1}{4}$ of a number or shape, and knows that all parts must be equal parts of the whole				
Use different coins to make the same amount				
Read the time on a clock to the nearest 15 minutes				
Name and describe properties of 2-D and 3-D shapes, including number of sides, vertices, edges, faces and lines of symmetry.				
Working at greater depth within the expected standard				
Read scales (in the form of a number line/practical measuring situation) where not all numbers on the scale are given and estimate points in between				
Recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts				
Use reasoning about numbers and relationships to solve more complex problems and explain their thinking (eg. $29 + 17 = 15 + 4 + 10$; "together Jack and Sam have £14. Jack has £2 more than Sam. How much money does Sam have?" $9(16)$)				
Solve unfamiliar word problems that involve more than one step (e.g. which has the most biscuits, 4 packets of biscuits with 5 in each packet or 3 packets of biscuits with 10 in each packet?)				
Read the time on the clock to the nearest 5 minutes				
Describe similarities and differences of 2D and 3-D shapes, using their properties (e.g. that two different 2-D shapes both have only one line of symmetry; that a cube and a cuboid have the same number of edges, faces and vertices but different dimensions).				