# What I can do in mathematics - 

## level 4

Name: $\qquad$

| My mental mathematics |  |  |
| :---: | :---: | :---: |
| My I can statements | Examples of questions I can answer | My working and answers |
| I can use mental calculation strategies for addition, subtraction, multiplication and division | What number is 199 more than 428? <br> What is the difference between 1999 and 4003? <br> One orange costs 15 p. How much would five oranges cost? <br> Y4 optional test 1998 Mental test level 4. © QCA <br> Four pineapples cost £3.40. Calculate the cost of one pineapple. <br> Y4 optional test 2003 Paper A level 4. © QCA |  |
| I can use mental methods for calculations that involve decimals | Multiply nought point seven by nine. <br> Subtract one point nine from two point seven. <br> KS2 2003 Mental test level 4. © QCA <br> Find the total of $0.2,0.4$ and 0.6 . <br> What is half of three point six? <br> KS2 1998 Mental test level 4. © QCA |  |
| I can record my working for mental methods that involve several steps | A bottle holds 1 litre of lemonade. Rachel fills 5 glasses with lemonade. She puts 150 millilitres in each glass. <br> How much lemonade is left in the bottle? <br> KS2 2003 Paper A level 4. © QCA |  |
| I can choose when to use mental methods, when to use written methods and when to use a calculator | Would you use a mental, written or calculator method to solve each of these? Explain your choice. $23.5 \times \square=176.25$ <br> How many cartons of juice costing 30 p each can I buy with $£ 2$ ? <br> What is the total cost if I buy food costing $£ 3.86$ and $£ 8.57$ ? |  |

Name: $\qquad$

## My understanding of numbers

| My I can statements | Examples of questions I can answer | My working and answers |
| :---: | :---: | :---: |
| I understand what each digit in a large/decimal number is worth and can explain how I know | What is the value of the 3 in the number 235 107? <br> Suggest a number between 3.4 and 3.5. <br> How many tenths could be made altogether from 8.4? |  |
| I can find a missing number in a decimal sequence | Find the missing number on this number line: $\square$ 10 <br> 10.2 <br> 10.4 |  |
| I can explain how I order a set of decimal numbers | Put the correct symbol, < or >, in each box: $3.03 € 3.3 \quad 0.37 € 0.327$ <br> Order these numbers: $\begin{array}{\|llllll} 0.27 & 0.207 & 0.027 & 2.07 & 2.7 \end{array}$ |  |
| I can round the numbers in a calculation to find an approximate answer | What is 3528 rounded to the nearest ten/hundred/thousand? <br> I buy 6 books that cost $£ 4.99$ each. How much will I pay to the nearest pound? How do you know? |  |
| I can describe each step I do to complete a decimal calculation or problem | Explain how you know which two numbers total 0.12: $\begin{array}{\|llllll} 0.1 & 0.5 & 0.05 & 0.7 & 0.07 & 0.2 \end{array}$ <br> Explain how you find the missing number: $11.07+\square=18.45$ |  |
| I can multiply/divide a number by 10/100/1000 and explain how I know the answer | How many hundreds are there in two thousand four hundred? <br> Y5 optional test 2003 Mental test level 4. © QCA <br> Write what the missing digits could be: $\square \square \div 10=3 \square$ <br> KS2 1997 Paper A level 4. © QCA |  |
| I can use number facts to give some linked decimal facts | $7 \times 8=56$. What is $0.07 \times 8$ ? Give some other decimal facts that are linked to this multiplication fact. <br> What number multiplied by 8 gives 4.8 ? |  |

Name: $\qquad$

| My calculating using money and time |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| My I can statements | Examples of questions I can answer | My working and answers |  |  |  |  |
| I can solve problems that involve time, recording my calculation methods clearly | These are the start and finish times on a video recorder. <br> START 14:45 FINISH 17:25 <br> For how long was the video recording? KS2 1999 Paper B level 4. © QCA |  |  |  |  |  |
| I can read a timetable/calendar in order to solve a problem | Simon's birthday is on 26 August. He always has a party on the last Saturday in August. What was the date of the party in 1998? In what year will the party next fall on his actual birthday? <br> Tina's birthday is on 9 September. <br> On what day of the week was her birthday in 2008? <br> KS2 1999 Paper B level 4. © QCA | Sun  <br> 2  <br> 2 3 <br> 9 1 <br> 16 1 <br> 23 2 <br> 30 3 | Aug <br> Tus | 1 <br> West <br> wed | $\begin{aligned} & \text { Thur } \\ & \hline \text { rer } \\ & \hline \end{aligned}$ |   <br> Fi  <br>  1 <br> 7 1 <br>  8 <br> 14 15 <br> 21 22 <br> 28 29 <br>   |
| I can solve problems that involve money, recording my working for each step | A packet of crisps costs 32p. Josh buys three packets. <br> How much change does he get from £1? KS2 2005 Mental test level 4. © QCA <br> Ryan buys sunglasses for $£ 4.69$ and a sun hat. How much change does he get from £10? <br> KS2 2004 Paper A level 4. © QCA |  |  |  |  |  |
| I can use a calculator effectively to solve money problems | How much change will I get from $£ 10$ if I buy groceries costing £2.29, £1.42, 76p and $£ 3.83$ ? <br> A pencil costs 48 p. Jake works out the cost of five pencils by entering $48 \times 5$ into a calculator. <br> If the calculator display says 240 what answer should Jake give? |  |  |  |  |  |

## 5 of 10 The National Strategies | Primary

Name: $\qquad$

## My skills in reading scales

| My I can statements | Examples of questions I can answer | My working and answers |
| :---: | :---: | :---: |
| I can work out the size of each interval on a scale and check, using counting | What is one interval worth on this scale? How do you know? <br> This scale shows the weight of Fred's cat. How much does Fred's cat weigh? <br> KS2 2004 Paper B level 4. © QCA |  |
| I can work out the value of any marked point on a scale | Which jug contains more water, A or B? <br> How much more does it contain? Explain how you worked it out. <br> Jug A <br> Jug B <br> 2003 Y7 progress test Paper B level 4. © QCA |  |
| I can estimate the value of a point that falls between two marks on a scale | Sophie poured some water out of a litre jug. Look how much is left in the jug. Estimate how many millilitres of water are left. <br> Y5 optional test 2003 Paper A level 4. © QCA |  |
| I can read a scale to solve problems involving length, weight and capacity | Use one apple to work out approximately how many apples you would get in a 1 kg bag. |  |

Name: $\qquad$

| My problem solving using tables and graphs |  |  |
| :---: | :---: | :---: |
| My I can statements | Examples of questions I can answer | My working and answers |
| I can find the information in a table or graph to answer a question |  Hull  York Leeds <br> Adult single $£ 12.50$ $£ 15.60$ $£ 10.25$ <br>  return $£ 23.75$ $£ 28.50$ $£ 19.30$ <br>  single $£ 8.50$ $£ 10.80$ $£ 8.25$ <br>  return $£ 14.90$ $£ 17.90$ $£ 14.75$ <br> The table shows the cost of coach tickets to different cities. <br> What is the total cost for a return journey to York for one adult and two children? <br> KS2 2002 Paper B level 4. © QCA |  |
| I can read data accurately from a graph | Here are some children's long jump results. Sue jumped 212 cm . <br> Draw Sue's long jump result on the graph. <br> Use the graph above to estimate how much further Sam jumped than Jan. <br> KS2 1996 Paper A level 3. © QCA |  |
| I can work out what calculations I need to do to answer questions using data |  |  |

Name: $\qquad$

| My understanding of shapes |  |  |
| :---: | :---: | :---: |
| My I can statements | Examples of questions I can answer | My working and answers |
| I can name shapes and describe their properties, using mathematical language | Imagine a triangular prism. <br> How many faces does it have? <br> KS2 1999 Mental test level 4. © QCA <br> This diagram shows the diagonals of a quadrilateral. What is its name? <br> KS2 2003 Paper A level 4. © QCA |  |
| I can draw or make shapes accurately | On squared paper, draw a pentagon that has three right angles. <br> Draw two straight lines from point A to divide the shape into a square and two triangles. KS2 2003 Paper B level 4. © QCA |  |
| I can explain how <br> I have sorted a set of shapes | My shape has <br> exactly two equal <br> sides. <br> My shape has exactly two parallel sides. <br> Can you show or draw me a polygon that fits both of these criteria? <br> What do you look for? |  |
| I can reflect a shape accurately in a given mirror line | This grid is made of hexagons. <br> Draw the reflection of the shaded shape on the grid. <br> KS2 2005 Paper B level 3. © QCA |  |
| I can rotate a shape about a vertex or its centre | This pattern is made by turning a shape clockwise through $90^{\circ}$ each time. Draw the two missing triangles on the last shape. <br> KS2 2005 Paper B level 4. © QCA |  |
| I can describe where a shape will be after translation | This triangle is translated two squares to the left and one square down. <br> Give the coordinates of its vertices in the new position. |  |

## 8 of 10 The National Strategies | Primary

What I can do in mathematics - level 4

## Acknowledgments

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