

## Year 3 Maths Summer Week 1

5 days of problem solving	Day 1 Activity	Day 2 Activity	Day 3 Activity	Day 4 Activity	Day 5 Activity
<b>Factual fluency</b> (to aid fluency)	<a href="https://www.topmarks.co.uk/maths-games/hit-the-button">https://www.topmarks.co.uk/maths-games/hit-the-button</a> Hit the answer - x 8	<a href="https://www.topmarks.co.uk/maths-games/hit-the-button">https://www.topmarks.co.uk/maths-games/hit-the-button</a> Hit the answer - divided by 8	<a href="https://www.topmarks.co.uk/maths-games/hit-the-button">https://www.topmarks.co.uk/maths-games/hit-the-button</a> Hit the answer - divided by 8	<a href="https://www.topmarks.co.uk/maths-games/daily10">https://www.topmarks.co.uk/maths-games/daily10</a> level 3-multiplication-mixed tables x2,x3,x4,x5,x8,x10	<a href="https://www.topmarks.co.uk/maths-games/daily10">https://www.topmarks.co.uk/maths-games/daily10</a> level 3-multiplication-mixed tables x2,x3,x4,x5,x8,x10
<b>Problem/activity of the day</b>	<p>How can you find the total cost of these items? Can you do it in more than one way?</p> <p>A new book = £7 and 30p</p> <p>Blueberries = £1 and 50p</p> <p>Packet of crisps = 80p</p> <p>Now create a pretend shop in your home. Label the items in your shop with how much they cost.</p> <p>Calculate how much it would cost to buy two items in your shop. Then two different items. Then two other items.</p>	<p>A bottle of juice costs £2 and 80p.</p> <p>How many different combinations of coins could you use to pay for the bottle of juice?</p> <p>How could you pay for it using the greatest amount of coins?</p> <p>How could you pay for it using the least amount of coins?</p>	<p>Holly receives £10 pocket money every month. She spends most of it, but makes sure to save £2 and 50p every month to put in her piggy bank.</p> <p>How much money will she spend in one month? In six months? In a year?</p> <p>What if she saved £6 and 25p instead of £2 and 50p each month?</p> <p>What could she be spending her money on?</p>	<p>Set up your pretend shop in your house.</p> <p>A brother, sister, grown up or teddy bear should play the role of the shop keeper.</p> <p>Choose five items from around the house and give them the following prices: £2 and 55p, £8 and 75p, £2 and 62p, £7 and 2p and £3 and 14p.</p> <p>Choose which note to buy each item with.</p> <p>Calculate for the shopkeeper how much change they owe you.</p>	<p><a href="https://nrich.maths.org/223">https://nrich.maths.org/223</a></p> <p>Rosie went into the sweet shop with 10p to spend.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px;">2p</div>  <p>chews</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px;">3p</div>  <p>mini eggs</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px;">5p</div>  <p>Chocko bars</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 2px;">7p</div>  <p>lollypops</p> </div> </div> <p>What could she buy if she wanted to spend ALL her money? How many different answers can you find?</p> <p>Alice and James went into the shop too. They each had 20p to spend and they spent ALL of their money.</p> <p>Alice bought at least one of each kind of sweet. Which one did she have two of?</p> <p>James spent his money on just one kind of sweet, but he does not like chews. Which sweets did he buy?</p>
<b>Resources you will need</b>	<p>Paper and pencil Coins and notes if possible: 1p, 2p, 5p, 10p, 20p, 50p, £1 and £2 coins, £5 note <b><u>If you do not have these at home: Draw around the notes and coins from the images below to make your own. Keep them safe for the week!</u></b></p>	<p>Paper and pencil Coins if possible: 1p, 2p, 5p, 10p, 20p, 50p, £1 and £2 coins</p>	<p>Paper and pencil Coins if possible: 1p, 2p, 5p, 10p, 20p, 50p, £1 and £2 coins and £10 and £5 notes</p>	<p>Paper and pencils Coins if possible: 1p, 2p, 5p, 10p, 20p, 50p, £1 and £2 coins and £10 and £5 notes</p>	<p>Paper and pencils Coins if possible: 1p, 2p, 5p, 10p, 20p, 50p, £1 and £2 coins and £10 and £5 notes</p>

<b>Tips, clues or methods to help</b>	Use the coins and notes to add the amounts together. Remember: 100p = £1 Use the formal written method (see below)	Remember: 100p = £1 Try using the coins to make £2 and 80p in different ways	Remember: 100p = £1 Try using the coins and notes to subtract. Try using the formal written method (see below)	Remember: 100p = £1 Use the coins and notes to subtract or count up. Use the formal written method (see below)	Write down your calculations as you do them to keep track
<b>Want to check?</b>	Use the inverse to check	Check your coins total	Use the inverse to check	Use the inverse to check	Check the total
<b>Theme</b>	Money	Money	Money	Money	Money

**See below for:** Pictures of coins and notes, formal written method

**Additional activities below:** extension for day 5's problem, money maze

**Coins and notes support:**



### Formal written method for adding money (Day 1):

$$\begin{array}{r} \text{£ } 12 \quad 30 \text{ p} \\ + \text{£ } 8 \quad 45 \text{ p} \\ \hline \end{array}$$

### Formal written method for adding money (Day 3 and 4):

$$\begin{array}{r} \text{£ } 10 \quad 00 \text{ p} \\ - \text{£ } 6 \quad 25 \text{ p} \\ \hline \end{array}$$

### Additional activities:

#### Challenge for Day 5 problem:

Katie and Henry went into the shop too. They also each had 20p to spend and they all spent all of their money.

Katie bought the same number of sweets as James but she had 3 different kinds. Which sweets did she buy?

Henry chose 8 sweets. What could he have bought?

### Extra challenge:

#### The Money Maze

Go through the maze, collecting and losing your money as you go. You may not go through any cell more than once, and can only go into a cell through a gap, for example, you may not go from 5 to 6, or from 7 to 3.

Which route gives you the highest return? How much is it?

Which route gives you the lowest return? How much is it?

