

Max's Spooky Potion Maths

Learning objective: To solve addition, subtraction, and multiplication problems involving money and measures in a real-world context.

Max the monkey is preparing ingredients for a spooky science experiment! Use your maths skills to help Max calculate the costs and measurements for his bubbling cauldron. Show your working out clearly.

Max is gathering supplies for a spooky experiment. At the market, he finds dried beetle-shells for £2.45, shimmering swamp-moss for £3.70, and a jar of glow-worm glitter for £1.25. He has a budget of £10.00 to spend on his potion ingredients.

Word bank: total · difference · product · multiply · calculate · pounds · pence · measurement

1. Max decides to buy the dried beetle-shells and the shimmering swamp-moss. How much does he spend in total? (2 marks)

2. How much change will Max receive from his £10.00 note if he buys all three items (beetle-shells, swamp-moss, and glow-worm glitter)? (2 marks)

3. If one jar of glitter costs £1.25, how much would it cost to buy 4 jars for his friends? (2 marks)

4. Max needs to measure the potion. If he pours 450ml of water into a cauldron that holds 1,200ml, how much more water can he add before it overflows? (2 marks)

5. Max's potion needs to simmer for 25 minutes. If he starts at 3:40 pm, what time will the potion be ready? (2 marks)

Draw: Draw your own spooky potion in a cauldron. Label the ingredients and write the total cost of your potion underneath the drawing.



Extension challenge: Max finds a 'buy one get one half price' deal on the glow-worm glitter. If the original price is £1.25, what is the total cost for two jars? Explain your calculation.