

Max's Market Math: Measurement and Money

Learning objective: To convert between units of measurement (millimetres, centimetres, metres, and kilometres) and solve multi-step problems involving money.

Help Max the monkey solve these measurement and money puzzles at the local market. Show your working out clearly.

Max is buying supplies for his forest project. He needs to measure ribbons, calculate the length of paths, and manage his pocket money carefully. Remember: $10\text{mm} = 1\text{cm}$, $100\text{cm} = 1\text{m}$, and $1000\text{m} = 1\text{km}$.

Word bank: millimetres · centimetres · metres · kilometres · conversion · decimal · total · remainder

1. Max buys a piece of ribbon that is 450cm long. How many metres of ribbon does he have in total? Show your conversion. (2 marks)

2. A spool of string is 3.5 metres long. If Max cuts off 80 centimetres to tie a sign, how many centimetres of string does he have left? (2 marks)

3. Max walks from the apple stall to the honey stand. The distance is 0.8 kilometres. How many metres did Max walk? (2 marks)

4. Max buys 3kg of bananas for £1.20 per kilogram and a jar of honey for £2.50. How much change does he receive from a £10 note? (3 marks)

5. If a caterpillar travels 15 millimetres every minute, how many centimetres will it travel in 10 minutes? (2 marks)

Draw: Draw a map of Max's market stall route, labelling one path as 1.5 kilometres and another as 250 metres.



Extension challenge: If Max has £20 and needs to buy 5 items that cost £3.75 each, does he have enough money left to buy a bag of seeds for £2.25? Explain your answer using calculations.