# 10.3-9 Reasoning Practice Paper 9: 10-minute Pack

NATIONAL CURRICULUM KS2 National Curriculum Mathematics - Reasoning Practice Paper Framework · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** A market stall sells strawberries in punnets. Each punnet holds 250g. The stallholder has 9 kg of strawberries to pack. Work out how many complete punnets he can fill.

**(2)**

**2** On 01/05/2026, a sunflower seedling grown by Ellie for a school science project was 4cm tall. It grows at a constant rate of 3.5cm per week. Work out the date on which the seedling's height will first reach at least 60cm.

**(3)**


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**3** A circle has a diameter of 18 cm. What is its radius?

Answer: ___ cm

**(1)**

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**4** A line joins (-2, -4) and (0, -4).

What are the coordinates of the midpoint of the line?

Answer: (___, ___)

**(2)**


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# Mark scheme · 10.3-9 Reasoning Practice Paper 9: 10-minute Pack

## Question 1

| | |
|---|---|
| converts 9 kg to 9000g oe | **M1** |
| 36 cao | **A1** |

Answer: **36 punnets**

## Question 2

| | |
|---|---|
| 60 - 4 = 56 (cm still needed to grow) oe | **M1** |
| 56 / 3.5 = 16 (weeks), dependent on correct value of 56 | **dM1** |
| 21/08/2026 cao (16 weeks = 112 days after 01/05/2026) | **A1** |

Answer: **21/08/2026**

## Question 3

| | |
|---|---|
| 9 cm cao | **B1** |

Answer: **9 cm**

## Question 4

| | |
|---|---|
| halves the horizontal distance | **M1** |
| (-1, -4) cao | **A1** |

Answer: **(-1, -4)**


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