## Reasoning and Problem Solving
## Estimate and Approximate

### Developing

**1a.** Various answers (depending on what the children choose to round to), for example: Taron's answer is likely to be incorrect because (when rounding to the nearest 100) an approximate answer to the calculation is 1,200 + 500 = 1,700, but Taron's answer would round to 1,600.

**2a.** 7 counters.

**3a.** Ibrahim is correct because 73 rounds down to 70. 200 – 70 = 130.

### Expected

**4a.** Various answers (depending on what the children choose to round to), for example: Rocco's answer is likely to be incorrect because (when rounding to the nearest 1,000) an approximate answer to the calculation is 44,000 – 17,000 = 27,000, but Rocco's answer would round to 36,000.

**5a.** 23 counters.

**6a.** Jackson is incorrect because £14.79 rounds up to £15. £70 – £15 = £55, not £45.

### Greater Depth

**7a.** Various answers (depending on what the children choose to round to), for example: Sean's answer is likely to be correct because (when rounding to the nearest 1,000) an approximate answer to the calculation is 28,000m + 8,000m = 36,000m, and Sean's answer would round to 36,000m.

**8a.** 391 coins.

**9a.** Max is correct because $9\frac{3}{4}$ km rounds up to 10,000m. 20,000m – 10,000m = 10,000m.

## Reasoning and Problem Solving
## Estimate and Approximate

### Developing

**1b.** Various answers (depending on what the children choose to round to), for example: Rachel's answer is likely to be correct because (when rounding to the nearest 1,000) an approximate answer to the calculation is 4,000 – 2,000 = 2,000, and Rachel's answer would round to 2,000.

**2b.** 23 counters.

**3b.** Sonya is incorrect because 1,856 rounds up to 2,000. 2,000 + 2,000 = 4,000, not 3,000.

### Expected

**4b.** Various answers (depending on what the children choose to round to), for example: Emily's answer is likely to be correct because (when rounding to the nearest 10,000) an approximate answer to the calculation is 30,000 + 10,000 = 40,000, and Emily's answer would round to 40,000.

**5b.** 84 coins.

**6b.** Esther is correct because 17,750 rounds up to 20,000. 80,000 – 20,000 = 60,000.

### Greater Depth

**7b.** Various answers (depending on what the children choose to round to), for example: Seren's answer is likely to be incorrect because (when rounding to the nearest 100) an approximate answer to the calculation is 53,500m – 9,800m = 43,700m, but Seren's answer would round to 49,900m.

**8b.** 17 pieces of rope.

**9b.** Olivia is incorrect because £244.89 rounds up to £245. £290 – £245 = £45, not £35 (3,500p).