Multi-step problems page 9

1a. 2,089 and 1,272 2a. 4,932 3a. 1,496 4a. 5,645 – 3,566 + 4,105 or 5,645 + 4,105 – 3,566

1b. 2,135 and 1,440 2b. 4,490 3b. 5,251 4b. 6,234 – 3,055 – 304

Multi-step problems page 10

1a. Yes. £4,522 + £1,897 (£4,522 – £2,625) + £3,437 (£1.897 + £1,540) = £9,856 2a. If A has 4,906 stickers and C has 3,698 stickers, B must have 688 stickers (9,292 – 4,906 – 3,698 = 688). 3a. Example answer: Ryan is measuring ingredients to make lemonade. He needs 6,399ml of water. He starts with 7,866ml so needs to remove some, but he takes too much. How much does he need to add to make his total? The missing number is 2,905ml.

1b. 9,800 tins of pet food 2b. If A has 1,197 counters and B has 1,783 counters, then C must have 1,518 counters (4,498 – 1,197 – 1,783). 3b. Example answer: Miles has £6,688 in his bank account. If he earns £2,501 in one month, how much does he spend if his final balance is £7,626 at the end of the month? The missing number is £1,563.

Multi-step problems page 11

1a. £2,753 and £1,978 2a. 1,775 3a. 7,151 4a. – 2,359ml; + 3,758ml; – 3,956ml

1b. £3,889 and £245 2b. 4,941 3b. 2,880 4b. + 5,988g; + 2,977g; – 8,697g

Multi-step problems page 12

1a. No. 2,264 (Jan) + 1,132 (Feb) + 3,630 (Mar) = 7,026 2a. A = 2,242; B = 5,501; C = 1,121 – there are 1,121 more in box A. 3a. Khadija knows that there are 8,672 items of stationery in the school cupboard. Using the table below, work out how many pencils there must be. The missing number is 3,899.

1b. 2016 = 2,267; 2017 = 5,063; 2018 = 2,085 - the total is 9,415 bookings. 2b. A = 4,606; B = 2,303; C = 2,658 – there are 355 more in Box C. 3b. Yellow Class are analysing the results of a traffic survey. If they saw 500 more cars at 11:00, how many cars did they see in total? The total would be 9,549.

Multi-step problems page 14

1. a) 8 times a number is 200. What is 80 times the number? 2000 b) 6 times a number is 8.4. What is 60 times the number? 84 c) 70 times a number is 56. What is 7 times the number? 5.6

2. Lizzie and Jane share 2690 beads equally between them. They create jewellery items to sell at the school fayre. Jane needs 7 beads per item and Lizzie needs 8 beads per item. Who, if anyone, will have the most number of beads left over? Both Jane and Lizzie will have 1 bead left over.

3. Daniel gets €592.50 when he exchanges £500. He decides to exchange another £300. How much is this in Euros? €355.50

4. It takes 12 weeks for a sunflower to grow 15cm. How many minutes is this? 120,960 minutes

5. 14 x ? x ? = 1694 The same number is missing from each box. What is the missing number? 11