Answers - Addition and subtraction to 100

Year: Year 2

Answer to Question 1

a. Add 1 tens: 23 + 10 = 33. Add 4 ones: 33 + 4 = **37**.
b. Add 3 tens: 45 + 30 = 75. Add 2 ones: 75 + 2 = **77**.
c. Add 2 tens: 58 + 20 = 78. Add 1 ones: 78 + 1 = **79**.
d. Add 4 tens: 36 + 40 = 76. Add 0 ones: 76 + 0 = **76**.
e. Add 2 tens: 64 + 20 = 84. Add 5 ones: 84 + 5 = **89**.

Answer to Question 2

a. 28 + 2 = 30, then 30 + 3 = **33**.
b. 47 + 3 = 50, then 50 + 3 = **53**.
c. 69 + 1 = 70, then 70 + 3 = **73**.
d. 35 + 5 = 40, then 40 + 3 = **43**.
e. 76 + 4 = 80, then 80 + 5 = **85**.

Answer to Question 3

a. Ones: 4 + 5 = 9. Tens: 3 + 2 = 5. **59**. No carrying.
b. Ones: 7 + 8 = 15, write 5 carry 1. Tens: 4 + 3 + 1 = 8. **85**.
c. Ones: 6 + 7 = 13, write 3 carry 1. Tens: 5 + 2 + 1 = 8. **83**.
d. Ones: 9 + 4 = 13, write 3 carry 1. Tens: 1 + 6 + 1 = 8. **83**.
e. Ones: 8 + 9 = 17, write 7 carry 1. Tens: 3 + 4 + 1 = 8. **87**.

Answer to Question 4

a. 68 − 23: take away 20, then take away 3. **45**.
b. 75 − 41: take away 40, then take away 1. **34**.
c. 92 − 30: take away 30, then take away 0. **62**.
d. 57 − 6: take away 0, then take away 6. **51**.
e. 83 − 28: take away 20, then take away 8. **55**.

Answer to Question 5

a. 43 to 50 is 7, and 50 to 58 is 8. 7 + 8 = **15**.

b. 37 to 40 is 3, and 40 to 52 is 12. 3 + 12 = **15**.
c. 61 to 70 is **9**.
d. 45 to 49 is **4**.

Answer to Question 6

a. 59 − 33 = **26** and 59 − 26 = **33**.
b. 62 − 17 = **45** and 62 − 45 = **17**.
c. 82 − 44 = **38** and 82 − 38 = **44**.

Answer to Question 7

a. 34 + 25 = 59. Add 20 to get 54, then 5 more: **59 biscuits**.
b. 59 + 18 = 77. Add 20 to get 79, then take away 2: **77 biscuits**.
c. 77 − 29 = 48. Take away 30 to get 47, then add 1: **48 biscuits**.
d. 48 − 6 = **42 biscuits**.

Answer to Question 8

a. 46 + 38 = 84. Ones: 6 + 8 = 14, carry 1. Tens: 4 + 3 + 1 = 8. **84 rolls**.
b. 84 − 52 = **32 rolls**.
c. 32 + 15 = **47 rolls**.
d. 60 − 47 = 13. No, there are **13 rolls too few**.

Answer to Question 9

a. 27 + 45 = 72. Ones: 7 + 5 = 12, carry 1. Tens: 2 + 4 + 1 = 7. **72 stickers**.
b. 72 + 19 = 91. Add 20 to get 92, take away 1. **91 stickers**.
c. 100 − 91 = **9 stickers**.
d. 45 + 12 = **57 stickers**.

Answer to Question 10

a. 29 + 26 = 55. Add 30 to get 59, take away 4. **55 children**.
b. 55 + 4 + 7 = 66. 55 + 4 = 59 and 59 + 7 = 66. **66 people**.
c. 80 − 66 = **14 seats** empty.
d. 55 − 18 = 37. Take away 20 to get 35, add 2. **37 children**.

Answer to Question 11

a. 14 + 23 + 19 = 37 + 19 = **56 goals**.
b. 31 + 28 + 15 = 59 + 15 = **74 goals**.
c. Blue wins. 74 − 56 = **18 goals**.

Answer to Question 12

a. 63 − 24 = 39. Take away 20 to get 43, then take away 4. **39 apples**.
b. 28 − 9 = 19. **19 pears**.
c. 37 + 30 = **67 plums**.
d. 39 + 19 = 58 and 58 + 67 = 125. There are **125 pieces of fruit** (apples, pears and plums).

Answer to Question 13

a. 35 + 25 + 20 = 60 + 20 = **80p**.
b. 50 + 80 = **130p**.
c. 85 + 90 = 175. Add 100 then take away 10. **175p**.
d. 200 − 175 = **25p**.

Answer to Question 14

a. 28 + 35 = **63 pages**. Ones: 8 + 5 = 13, carry 1. Tens: 2 + 3 + 1 = 6.
b. 63 + 17 = **80 pages**.
c. 96 − 80 = **16 pages**.
d. Half of 96 is 48 and 80 is bigger than 48. Yes, Sam is right.

Answer to Question 15

a. Red: 24 + 31 + 18 = 55 + 18 = **73**. Blue: 35 + 22 + 27 = 57 + 27 = **84**. Green: 28 + 29 + 30 = 57 + 30 = **87**. Yellow: 19 + 38 + 25 = 57 + 25 = **82**.
b. Green has 87 and wins. Red has 73 and comes last.
c. 87 − 73 = **14 points**.
d. Green has 87 and Blue has 84. 87 − 84 = 3, so Blue needs **3 more points to draw** and **4 more points to win**.
e. Yellow: 82 + 12 = 94. 94 is more than 87, so **yes, Yellow wins**.

Answer to Question 16

a. Cakes: 48 − 41 = **7**. Biscuits: 36 − 29 = **7**. Buns: 15 − 9 = **6**.
b. 7 + 20 = **27 biscuits**.
c. 7 + 27 + 6 = 34 + 6 = **40 items** (7 cakes, 27 biscuits, 6 buns).
d. 50 − 40 = **10 more items**.

Answer to Question 17

a. 24 + 19 + 33 = 43 + 33 = **76 bricks**.
b. Sara has 85 and Max has 76. 85 − 76 = **9**. Sara has 9 more bricks.
c. 85 − 17 = **68 bricks**.
d. Max has 76 bricks and Sara has 68. 76 is bigger than 68, so **Max** has the taller tower, by 8 bricks.
e. 90 − 76 = **14 bricks**.

Answer to Question 18

a. 45 + 18 + 27 = 63 + 27 = **90 pounds**.
b. 85 + 20 = **105 pounds**.
c. 105 − 90 = **15 pounds**.
d. 12 + 15 = 27 pounds. She has only 15 pounds left and 27 is more than 15. **No**, she needs 12 pounds more: 27 − 15 = 12.

Answer to Question 19

a. 38 + 29 = **67 stamps**. Ones: 8 + 9 = 17, carry 1. Tens: 3 + 2 + 1 = 6.
b. 67 − 16 + 9 = 51 + 9 = **60 stamps**.
c. 54 + 16 − 9 = 70 − 9 = **61 stamps**.
d. Idris has 61 and Noor has 60. **Idris has 1 more**.
e. 60 + 61 = **121 stamps**. Before: 67 + 54 = 121. The total is the same because stamps only move between them.

Answer to Question 20

a. 34 + 28 + 25 = 62 + 25 = **87 metres**.
b. 34 + 28 = **62 metres**.
c. 87 + 62 = **149 metres**.
d. 150 − 149 = 1. The children walk 149 metres, which is **less than 150**, so she is not right (it is 1 metre short).

Answer to Question 21

a. 30 and 70 differ by 40, which is too big. 32 and 68 differ by 68 − 32 = 36 and 32 + 68 = 100. The numbers are **32 and 68**.
b. Work backwards. 60 + 15 = 75. Then 75 − 28 = 47. The number was **47**. Check: 47 + 28 = 75 and 75 − 15 = 60.
c. Put the biggest digits in the tens place: 7 and 5. Put the others in the ones place: 4 and 2. 74 + 52 = 126 or 72 + 54 = 126. The biggest total is **126**.