Answers - Place value to 100

Year: Year 2

Answer to Question 1

a. 36 has **3 tens and 6 ones**: 36 = 30 + 6.
b. 58 has **5 tens and 8 ones**: 58 = 50 + 8.
c. 70 has **7 tens and 0 ones**: 70 = 70 + 0.
d. 83 has **8 tens and 3 ones**: 83 = 80 + 3.
e. 19 has **1 tens and 9 ones**: 19 = 10 + 9.

Answer to Question 2

a. 3 tens and 5 ones: 30 + 5 = **35**.
b. 6 tens and 2 ones: 60 + 2 = **62**.
c. 4 tens and 9 ones: 40 + 9 = **49**.

Answer to Question 3

a. 4 is in the tens place: **40**.
b. 4 is in the ones place: **4**.
c. 8 is in the tens place: **80**.
d. 8 is in the ones place: **8**.
e. 5 is in the ones place: **5**.

Answer to Question 4

a. 10 more is **44** and 10 less is **24**.
b. 10 more is **68** and 10 less is **48**.
c. 10 more is **85** and 10 less is **65**.
d. 10 more is **56** and 10 less is **36**.
e. 10 more is **100** and 10 less is **80**.

Answer to Question 5

a. 4 tens is less than 7 tens: **47 < 74**.
b. Same tens, 2 ones is less than 8 ones: **52 < 58**.
c. 6 tens is 60: **60 = 6 tens**.
d. 3 tens is less than 4 tens: **39 < 41**.
e. **33, 36, 63, 66**.

Answer to Question 6

a. Steps of 2: **8**.
b. Steps of 5: **15** and **30**.
c. Steps of 3: **12** and **18**.
d. Steps of 10: **50** and **70**.
e. 95, 85, **75**, **65**.

Answer to Question 7

a. 4 tens and 6 ones is 40 + 6 = **46 marbles**.
b. 3 tens + 15 ones: 15 is 1 ten and 5 ones, so 4 tens and 5 ones = **45 marbles**.
c. 46 and 45 have the same tens. 6 ones is more than 5 ones, so **Leo** has more.
d. 46 + 4 = **50 marbles**, which is exactly 5 tens.

Answer to Question 8

a. The odd numbers go up in 2s: 49 + 2 = **51**.
b. The even numbers go up in 2s: 48 + 2 = **50**.
c. 37 + 10 = 47, so **number 47**.
d. 5 tens and 2 ones is 50 + 2 = **52**.

Answer to Question 9

a. 6 tens and 8 ones is 60 + 8 = **68 books**.
b. 100 − 68 = **32 books** more.
c. Make the 8 loose books into a pile with 2 more books: 7 piles of 10, which is **70 books**.
d. 68 is more than 60 and less than 70, so **yes**.

Answer to Question 10

a. 55, 59, 90, 95.
b. The biggest number is 95, so **Beth**.
c. Ali 59 and Beth 95 use the same digits. 95 − 59 = **36**.
d. The 9 in 95 is in the tens place, worth **90**.

Answer to Question 11

a. 9 × 5 = **45 sweets**. Count in fives: 5, 10, 15, ... 45.

b. 45 + 3 = **48 sweets**.
c. 48 is 4 tens and 8 ones. She can fill **4 bags** and has **8 sweets** left.
d. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24. That is **12 numbers**, because 12 × 2 = 24.

Answer to Question 12

a. 46 and 64 are between 40 and 70.
b. 82 is between **80 and 90**.
c. 46 is 4 away from 50, and 64 is 14 away. **46** is closest.
d. **82, 64, 46, 28**.

Answer to Question 13

a. 70 + 8 = **78p**.
b. 60 + 18 = 78, which is 7 tens and 8 ones. **78p**.
c. Both have **the same** amount: 78p.
d. The difference is **0p**.

Answer to Question 14

a. The first row is 34, 35, 36, 37. The second row is 10 more: **44, 45, 46, 47**.
b. 47 + 10 = **57**.
c. 52 − 10 = **42**.
d. The last row is 54, 55, 56, 57, so the biggest number is **57**.
e. In the 5 times table: **35, 45, 55** (they end in 5).

Answer to Question 15

a. 50 + 7 = **57 stamps**.
b. 4 pages + 18 stamps: 18 is 1 ten and 8 ones. That is 5 tens and 8 ones, which is 40 + 18 = **58 stamps**.
c. 60 + 2 = **62 stamps**.
d. 62 (Cara), 58 (Ben), 57 (Ava). Order: **Cara, Ben, Ava**.
e. 62 − 57 = **5 more stamps**.

Answer to Question 16

a. 8 × 5: 5, 10, 15, 20, 25, 30, 35, 40. **40 penguins**.
b. 9 × 2: 2, 4, 6, 8, 10, 12, 14, 16, 18. **18 monkeys**.
c. 3 × 10: 10, 20, 30. **30 lizards**.

d. Penguins 40 are the most, and monkeys 18 are the fewest.
e. 40 + 18 + 30 = 58 + 30 = **88 animals**.

Answer to Question 17

a. 6 tens means 60 to 69. Smaller than 65 and in the 5 times table: **60**.
b. Tens digit 4, so the ones digit is 8. The number is **48**.
c. 28 + 10 = **38**.
d. 37 or 73. The bigger is **73**.
e. The answers are 60, 48 and 38. In order: **38, 48, 60**.

Answer to Question 18

a. 4 strips of 10 is **40 tickets**.
b. 3 strips and 5 loose tickets is 30 + 5 = **35 tickets**.
c. 40 + 35 + 20 = **95 tickets**.
d. 100 − 95 = **5 tickets**. That is less than 1 strip of 10, so 0 full strips and 5 loose tickets.
e. 95 is more than 90, so **yes**, she reaches it.

Answer to Question 19

a. Cairo (30) is the warmest. Paris (7) is the coldest.
b. 7, 12, 21, 30: **Paris, London, Madrid, Cairo**.
c. 12 + 10 = **22 degrees**.
d. 30 − 10 = **20 degrees**.
e. 30 − 7 = **23 degrees** more.

Answer to Question 20

a. Using two of the three digits: 25, 29, 52, 59, 92, 95. The biggest is **95** and the smallest is **25**.
b. Tens = ones + 3 and tens + ones = 9. Try ones 3, tens 6: 6 + 3 = 9 and 6 is 3 more than 3. The number is **63**.
c. Between 10 and 50: **15, 25, 35, 45**. There are 9 two-digit numbers in all that end in 5: 15, 25, 35, 45, 55, 65, 75, 85 and 95.
d. The numbers go up by 7 each time. 28 + 7 = **35**. We are counting in **7s**.