Answers - Numbers to 100 and place value

Year: Year 1

Answer to Question 1

a. 23: 2 tens and 3 ones. 23 = 20 + 3.
b. 48: 4 tens and 8 ones. 48 = 40 + 8.
c. 60: 6 tens and 0 ones. 60 = 60 + 0.
d. 75: 7 tens and 5 ones. 75 = 70 + 5.
e. 91: 9 tens and 1 ones. 91 = 90 + 1.

Answer to Question 2

a. 4 tens is 40 and 6 ones is 6. Put them together: 40 + 6 = **46**.
b. 7 tens is 70 and there are no ones, so the ones digit is 0: **70**.
c. 2 tens is 20 and 9 ones is 9: 20 + 9 = **29**.
d. 50 is 5 tens and 3 is 3 ones, so the number is **53**.
e. 80 is 8 tens and 8 is 8 ones, so the number is **88**. The two 8s mean different things: 80 and 8.

Answer to Question 3

a. 13 is a teen number: **thirteen**.
b. 27 is 2 tens and 7 ones: twenty and seven, written **twenty-seven** with a hyphen.
c. 45 is 4 tens and 5 ones: **forty-five**. Be careful: forty has no u.
d. 68 is 6 tens and 8 ones: **sixty-eight**.
e. 90 is 9 tens and no ones, so it is just **ninety**.

Answer to Question 4

a. Go down one row. 24 → **34**.
b. 58 → **68**.
c. Go up one row. 47 → **37**.
d. 90 → **80**.
e. One more than 39 is **40** (9 ones and 1 more makes a new ten).

Answer to Question 5

a. Counting in 2s adds 2 each time: 2, 4, **6**, 8, 10, **12**.
b. Counting in 5s adds 5 each time: 5, 10, **15**, 20, **25**, 30.
c. Counting in 10s adds 1 to the tens digit each time: 10, **20**, 30, 40, **50**, 60.
d. From 16, add 2 more: 12, 14, 16, **18**, 20.
e. Counting back in 10s takes 1 away from the tens digit: 100, 90, **80**, 70.

Answer to Question 6

a. 3 tens is less than 5 tens: 35 **<** 53.
b. 7 tens is more than 2 tens: 72 **>** 27.
c. The same number: 48 **=** 48.
d. The tens are 6 and 5: 60 **>** 59.
e. 1 ten and 4 ones is less than 4 tens: 14 **<** 41.

Answer to Question 7

a. Each full box holds 10. Count in tens for 3 boxes: 10, 20, 30. There are **30** eggs in the boxes.
b. Add the 6 loose eggs to the 30: 3 tens and 6 ones make **36** eggs.
c. 36 is 3 tens and 6 ones, so we write **thirty-six**.
d. 10 more adds 1 to the tens digit: 36 becomes **46** eggs. The ones digit stays 6.

Answer to Question 8

a. Each bag has 10 sweets. Count in tens for 4 bags: 10, 20, 30, 40. Max has **40** sweets.
b. Lily has 2 bags, which is 2 tens or 20, and 5 loose sweets, which is 5 ones: 20 + 5 = **25** sweets.
c. Compare the tens: 40 has 4 tens and 25 has only 2 tens. So 40 > 25 and **Max** has more sweets.
d. Lily gets one more ten, so her tens digit goes up by 1: 25 + 10 = **35** sweets.

Answer to Question 9

a. 5 tens and 6 ones.
b. 56 + 10 = **66** children.
c. **sixty-six**.
d. 66 − 20 = **46**. Two tens are taken away, so the tens digit goes from 6 to 4.

Answer to Question 10

a. Count in 5s, one number for each group of stickers: **5, 10, 15, 20, 25, 30**.
b. The last number said is 30, so there are **30** stickers in all.
c. One more group adds 5: 30 + 5 = **35** stickers.
d. 35 comes after 30 when we count, so 35 > 30. Anya has **more** than 30 stickers now.

Answer to Question 11

a. Compare the tens digits: Sam 2 tens, Meg 4 tens, Ali 2 tens. 4 tens is the most, so **Meg** swims the most lengths.
b. 24 and 29 both have 2 tens, so look at the ones: 4 is less than 9. Then 42 is the biggest. The order is **24, 29, 42**.
c. 10 more adds 1 to the tens digit: 29 + 10 = **39** lengths.
d. 39 has 3 tens and Sam's 24 has 2 tens, so 39 > 24. Ali has swum **more** than Sam.

Answer to Question 12

a. 50 has 5 tens. 80 has 8 tens.
b. 70 > 50, so **Dev** has read more.
c. 60, 70, 80. That is 3 steps, so **3 tens** (30 pages).
d. 3 tens = **30** pages. Check: 70 + 30 = 100.

Answer to Question 13

a. Each carriage holds 2 animals. Count in 2s for 8 carriages: **2, 4, 6, 8, 10, 12, 14, 16**.
b. The last number is 16, so there are **16** animals on the train.
c. Two carriages hold 2 + 2 = 4 animals. Take them away: 16 − 4 = **12** animals left.
d. 12 is a special number word: **twelve**.

Answer to Question 14

a. A is one more than 34. **35**.
b. B is between 43 and 45. **44**.
c. C is one more than 55. **56**.
d. Below 55 is 10 more. **65**.
e. Above 34 is 10 less. **24**.

Answer to Question 15

a. 63 is 6 tens and 3 ones. Hana has **6 piles and 3 loose** buttons.
b. 6 tens and 8 ones is 60 + 8 = **68** buttons.
c. The tens are the same (6). Compare ones: 3 < 8. So 63 < 68 and **Eli** has more.
d. 68 → 69 → 70. Eli needs **2** more.

Answer to Question 16

a. 45 is between 40 and 50 on the number line. **Yes, she is right.**
b. **55, 65, 75, 85, 95**.
c. There are **5** numbers, so 5 tens (50 more days). Check: 45 + 50 = 95.
d. **one hundred**.

Answer to Question 17

a. 2, 4, 6, 8, 10, 12, 14. **14** gloves.
b. 5, 10, 15, 20, 25, 30. **30** fingers.
c. 30 > 14, so the **fingers**.
d. Count on from 14 in 2s ... or take away: 30 − 14 = **16**.

Answer to Question 18

a. 10, 20, ... 90. **90** seats.
b. 10, 20, 30, 40. **40** seats.
c. 90 > 40: the **big bus** has more.
d. One more row is 10 more seats. 90 + 10 = 100. **Yes.**

Answer to Question 19

a. Put the biggest digit in the tens place: **75**.
b. Put the smallest digit in the tens place: **35**.
c. Start with 5 tens: 53 or 57. For example **57**.
d. In 53 and 57 the 5 is in the tens place, so it is worth 50. In 35 and 75 it is worth 5. The answer is **53 and 57**.

Answer to Question 20

a. 6 tens is 60 and 7 ones is 7. 60 + 7 = **67**.
b. Both digits the same between 40 and 50: **44**.

c. 10, 20, 30, 40, **50**.
d. 100 − 10 = 90, which is **ninety**.