

Homework Club Booklet 4

Answer Key

English Section

Retrieval

- 1 B – Vertical farming = stacked indoor layers under control.
- 2 B – First commercial unit (2012) opened in Singapore.
- 3 B – Saves water, land and pesticides.
- 4 B – Hydroponics delivers nutrients to roots.
- 5 B – LED lighting + climate control use most energy.
- 6 B – Newark warehouse grows lettuce year-round.
- 7 B – Japan offered subsidies / low-interest loans.
- 8 D – Water use can fall by about 90 %.

Inference

- 9 B – Local production cuts transport emissions.
- 10 B – Rooftop solar can offset high electricity demand.
- 11 B – Hybrid greenhouses give daylight, lowering energy.
- 12 B – “Living laboratories” = learn from success *and* failure.
- 13 B – Retraining shows inclusive job creation.
- 14 B – Consumers pay a premium only up to a point → prices must fall.
- 15 B – Blended supply fills seasonal / climatic gaps.
- 16 C – Vertical farming helps but cannot replace field farming.

Vocabulary

- 17 C – *Nascent* = newly emerging.
- 18 C – *Mitigate* = lessen / reduce.

Parts of Speech

- 19 B – **optimise** = verb.
- 20 B – **resilience** = noun.

Spelling

- 21 D – **agricultral** → agricultural.
- 22 D – **maintanance** → maintenance.
- 23 D – **performace** → performance.
- 24 D – **electical** → electrical.
- 25 E – No spelling error.

Punctuation

- 26 C – Needs comma after *yield*.
- 27 A – Replace semicolon with comma after *intensity*.
- 28 B – Comma needed after “insisted”.
- 29 A – Intro phrase needs comma after *sensors*.
- 30 B – Comma needed after *food*.

Choose the Best Word

- 31 A – aligned.
- 32 B – blur.
- 33 C – civil.
- 34 C – evidence.
- 35 A – routine.

Maths section

- 36. 50% of 16 = 8
- 37. 25% of 28 = 7
- 38. 75% of 4 = 3
- 39. 50% of 52 = 26
- 40. 75% of 16 = 12
- 41. 10% of 30 = 3
- 42. 50% of 36 = 18
- 43. 70% of 50 = 35
- 44. 80% of 30 = 24
- 45. 5% of 40 = 2
- 46. 25% = 0.25
- 47. 50% = 0.5
- 48. 10% = 0.1
- 49. 20% = 0.2
- 50. 75% = 0.75
- 51. 150% = 1.5
- 52. 0.03 = 3%
- 53. 0.05 = 5%
- 54. 0.35 = 35%
- 55. 0.42 = 42%
- 56. 0.72 = 72%
- 57. 1.09 = 109%
- 58. 4 bags
- 59. $300 \div 5 = 60$ cm, and $60 \div 300 \times 100 = 20\%$.
- 60. 171 cm

Vocab Quest Style

- 61. A - **Fortunate** means lucky.
- 62. A - To **enquire** is to ask.
- 63. A - **Miserable** means very unhappy.
- 64. A - Someone sleepy after staying up late is **drowsy**.
- 65. A - **Imitate** means copy.
- 66. C - The opposite of increase is **reduce**.
- 67. A - **Valuable** means worth a lot.
- 68. A - **Peculiar** means strange.
- 69. A - **Brief** means short.
- 70. B - A **clue** is a piece of information that helps someone find the answer or solve a mystery.

VR

NVR

- 71. B
- 72. C
- 73. A
- 74. B
- 75. D
- 76. E
- 77. D
- 78. B
- 79. B
- 80. B
- 81. E
- 82. C
- 83. D
- 84. A
- 85. E

$$86. 24 - 10 + 6 = 8 + 7 + [5, 10, 13, 15]$$

both sides total is = [18, 19, 20, 21]

$$87. 12 + 9 + 8 = 40 - [40, 30, 20, 10] + 9$$

both sides total is = [28, 29, 30, 31]

$$88. 7 \times 4 + 2 = 5 \times [5, 6, 7, 8] - 5$$

both sides total is = [30, 31, 32, 33]

$$89. 9 \times 9 + 9 = 10 \times 10 - [7, 8, 9, 10]$$

both sides total is = [87, 88, 89, 90]

$$90. 80 - 42 + 5 = 8 \times [5, 10, 15, 20] + 3$$

both sides total is = [41, 42, 43, 44]

$$91. 48 - 18 - 7 = [6, 7, 8, 9] \times 3 + 2$$

both sides total is = [20, 21, 22, 23]

$$92. 4 \times 5 \times 5 = 33 + [20, 25, 30, 35] + 32$$

both sides total is = [99, 100, 101, 102]

- 93. D
- 94. A
- 95. B
- 96. C