

Processing speed: full practice bank: open practice pack

100 untimed questions across 10 authored sections.

Detail	Value
Pack	cognitive-skills-processing-speed
Source	cognitive-skills
Pack version	v1
Worksheet items	100
Authored hints	0
Worked explanations	100

This is untimed educational practice for one cognitive skill. It is not a clinical, diagnostic, employment, or professionally recognized assessment, and it does not produce an IQ score or credential.

The answer key and worked explanations in this file belong only to this public, untimed educational practice source. No active aptitude suite or Novus Reasoning Challenge answer key is ever included in any download.

Learner worksheet

One hundred untimed self-check items in ten sections. In timed tests these tasks reward speed, but here accuracy comes first. Work briskly yet comfortably and let pace build with practice.

Choose one answer for each item. For a delayed-recall item, read its study text, cover it, and then answer without looking back.

Warm-up: quick counting and spotting

Ease in with quick counts, comparisons, and spot-the-difference checks.

1. processing-speed-q1

How many times does the digit '7' appear in this string: 7192747378179

- A. 3
- B. 4
- C. 5
- D. 6

Your answer: _____

2. processing-speed-q2

Which number does not belong with the others: 12, 18, 24, 29, 36?

- A. 12
- B. 24
- C. 29
- D. 36

Your answer: _____

3. processing-speed-q3

How many vowels (a, e, i, o, u) appear in this string of letters: 'tefaomulcezirp'?

- A. 4
- B. 5
- C. 6
- D. 7

Your answer: _____

4. processing-speed-q4

In the sequence 3, 6, 9, 12, __, 18, what number is missing?

- A. 14
- B. 15
- C. 16
- D. 17

Your answer: _____

5. processing-speed-q5

How many pairs of consecutive identical digits appear in this number: 1123455678?

- A. 1
- B. 2
- C. 3
- D. 4

Your answer: _____

6. processing-speed-q6

Which of these four number pairs sums to exactly 100: (37,64), (45,55), (52,49), (68,31)?

- A. (37, 64)
- B. (45, 55)
- C. (52, 49)
- D. (68, 31)

Your answer: _____

7. processing-speed-s01-q07

How many words in this list start with the letter B: banana, berry, apple, bread, cherry, basket?

- A. 4
- B. 3
- C. 5
- D. 2

Your answer: _____

8. processing-speed-s01-q08

Which of these numbers is the largest: 89, 98, 88, 99?

- A. 89
- B. 98
- C. 88
- D. 99

Your answer: _____

9. processing-speed-s01-q09

How many times does the letter 'a' appear in the word 'banana'?

- A. 3
- B. 2
- C. 4
- D. 1

Your answer: _____

10. processing-speed-s01-q10

Count the even numbers in this list: 3, 8, 5, 12, 7, 6, 9.

- A. 1
- B. 2
- C. 4
- D. 3

Your answer: _____

Symbol and letter scanning

Scan each string or row once and count or locate the target exactly.

11. processing-speed-s02-q01

How many times does the letter 'x' appear in this string: 'oxkxvexnxo'?

- A. 4
- B. 3
- C. 5
- D. 2

Your answer: _____

12. processing-speed-s02-q02

In the row ? ? ? ? ? ? ? ? , how many ? symbols appear?

- A. 2
- B. 3
- C. 4
- D. 5

Your answer: _____

13. processing-speed-s02-q03

How many capital letters appear in this string: 'aBcDeFgh'?

- A. 2
- B. 3
- C. 4
- D. 5

Your answer: _____

14. processing-speed-s02-q04

How many digits appear in this mixed string: 'a7k2p9x1c'?

- A. 1
- B. 2
- C. 3
- D. 4

Your answer: _____

15. processing-speed-s02-q05

How many vowels (a, e, i, o, u) appear in 'krotepzim'?

- A. 3
- B. 4
- C. 5
- D. 6

Your answer: _____

16. processing-speed-s02-q06

Which letter appears exactly twice in the string 'p q r p s q p'?

- A. p
- B. r
- C. q
- D. s

Your answer: _____

17. processing-speed-s02-q07

In the row ? ? ? ? ? ? ? , how many ? symbols appear?

- A. 2
- B. 3
- C. 4
- D. 5

Your answer: _____

18. processing-speed-s02-q08

How many lower-case letters appear in 'tRezplms'?

- A. 3
- B. 4
- C. 5
- D. 6

Your answer: _____

19. processing-speed-s02-q09

How many of these words contain the letter pair 'th': moth, mat, bath, tin, hop, cot?

- A. 2
- B. 3
- C. 4
- D. 5

Your answer: _____

20. processing-speed-s02-q10

In the string 'oodooooddo', how many 'o's appear?

- A. 4
- B. 5
- C. 6
- D. 7

Your answer: _____

Rapid mental arithmetic

Solve each sum in your head: accuracy first, then pace.

21. processing-speed-s03-q01

What is $17 + 26$?

- A. 42
- B. 43
- C. 44
- D. 45

Your answer: _____

22. processing-speed-s03-q02

What is $62 - 27$?

- A. 32
- B. 33
- C. 34
- D. 35

Your answer: _____

23. processing-speed-s03-q03

What is 8×7 ?

- A. 56
- B. 54
- C. 58
- D. 64

Your answer: _____

24. processing-speed-s03-q04

What is $45 + 38$?

- A. 81
- B. 82
- C. 83
- D. 84

Your answer: _____

25. processing-speed-s03-q05

What is 9×6 ?

- A. 52
- B. 54
- C. 56
- D. 58

Your answer: _____

26. processing-speed-s03-q06

What is $74 - 38$?

- A. 33
- B. 34
- C. 35
- D. 36

Your answer: _____

27. processing-speed-s03-q07

What is $120 \div 8$?

- A. 15
- B. 16
- C. 14
- D. 12

Your answer: _____

28. processing-speed-s03-q08

What is $13 + 28 + 9$?

- A. 48
- B. 49
- C. 50
- D. 51

Your answer: _____

29. processing-speed-s03-q09

What is half of 76?

- A. 36
- B. 38
- C. 40
- D. 42

Your answer: _____

30. processing-speed-s03-q10

What is 25×4 ?

- A. 75
- B. 90
- C. 95
- D. 100

Your answer: _____

Exact matching and comparison

Compare codes and names character by character to find exact matches.

31. processing-speed-s04-q01

Which of these matches the reference code GHT-4402 exactly?

- A. GHT-4420
- B. GTH-4402
- C. GHT-4402
- D. GHT-4022

Your answer: _____

32. processing-speed-s04-q02

Which of these four pairs is an exact match?

- A. A) MZ-7719 / MZ-7719
- B. B) MZ-7719 / MZ-7791
- C. C) ZM-7719 / MZ-7719
- D. D) MZ-7119 / MZ-7719

Your answer: _____

33. processing-speed-s04-q03

Which of these codes is different from the other three?

- A. A) PLQ-880
- B. B) PLQ-880
- C. C) PLQ-880
- D. D) PLO-880

Your answer: _____

34. processing-speed-s04-q04

Which of these matches 'Bramfield Lane 27' exactly?

- A. Bramfield Lane 72
- B. Bramfield Lane 27
- C. Brampfield Lane 27
- D. Bramfield Lane 21

Your answer: _____

35. processing-speed-s04-q05

Which word appears twice in this list: harbour, harbor, harbour, arbour?

- A. harbor
- B. arbour
- C. harbour
- D. No word appears twice

Your answer: _____

36. processing-speed-s04-q06

Which of these four pairs is NOT an exact match?

- A. A) TK-9906 / TK-9096
- B. B) TK-9906 / TK-9906
- C. C) RV-3321 / RV-3321
- D. D) LP-0785 / LP-0785

Your answer: _____

37. processing-speed-s04-q07

The reference code is 60482-Q. Which option matches it exactly?

- A. 60428-Q
- B. 60482-O
- C. 64082-Q
- D. 60482-Q

Your answer: _____

38. processing-speed-s04-q08

Which of these matches 'Whitfield & Grayson Ltd' exactly?

- A. Whitfield & Greyson Ltd
- B. Whitfield & Grayson Ltd
- C. Whitefield & Grayson Ltd
- D. Whitfield and Grayson Ltd

Your answer: _____

39. processing-speed-s04-q09

How many of these four codes match the reference 2281-VD: 2281-VD, 2281-DV, 2281-VD, 2218-VD?

- A. 0
- B. 1
- C. 2
- D. 3

Your answer: _____

40. processing-speed-s04-q10

Which of these four-digit codes contains the same digit twice?

- A. 4535
- B. 4790
- C. 1263
- D. 9805

Your answer: _____

Coding and substitution

Each item gives its own code key. Apply it swiftly and precisely.

41. processing-speed-s05-q01

Code key: ? = 1, ? = 2, ? = 3. What number does ? ? ? represent?

- A. 123
- B. 231
- C. 312
- D. 213

Your answer: _____

42. processing-speed-s05-q02

A code swaps each letter with its mirror from the end of the alphabet: A becomes Z, B becomes Y, C becomes X. Following the same rule, what does D become?

- A. V
- B. W
- C. X
- D. U

Your answer: _____

43. processing-speed-s05-q03

Code key: 1 = R, 2 = E, 3 = D, 4 = O. What word does 3-4-4-1 spell?

- A. DOOR
- B. ODOR
- C. RODE
- D. REDO

Your answer: _____

44. processing-speed-s05-q04

Shift each letter forward by one place in the alphabet (A becomes B, B becomes C, and so on). What does 'CAT' become?

- A. DAU
- B. CBU
- C. DBU
- D. DBV

Your answer: _____

45. processing-speed-s05-q05

Code key: ? = 4, ? = 7, ? = 2. What is the sum of ? ? ? ??

- A. 13
- B. 15
- C. 16
- D. 17

Your answer: _____

46. processing-speed-s05-q06

Code key: 2 = N, 4 = E, 6 = S, 8 = T. What word does 2-4-6-8 spell?

- A. NETS
- B. NEST
- C. SENT
- D. TENS

Your answer: _____

47. processing-speed-s05-q07

Shift each letter back by one place in the alphabet (B becomes A, C becomes B, and so on). What does 'DOG' become?

- A. CNF
- B. CNG
- C. DNF
- D. ENG

Your answer: _____

48. processing-speed-s05-q08

Code key: P = ?, Q = ?, R = ?. Which symbol sequence encodes 'RPQ'?

- A. ? ? ?
- B. ? ? ?
- C. ? ? ?
- D. ? ? ?

Your answer: _____

49. processing-speed-s05-q09

Using the code 1 = A, 2 = B, 3 = C and so on through the alphabet, what word does 6-1-3-5 spell?

- A. FADE
- B. FACE
- C. CAFE
- D. BEAD

Your answer: _____

50. processing-speed-s05-q10

Using the code 1 = A, 2 = B, 3 = C and so on, what is the sum of the position numbers of the letters in 'BEE'?

- A. 7
- B. 10
- C. 11
- D. 12

Your answer: _____

Number comparison and ordering

Compare, order, and pick out numbers against the rule given.

51. processing-speed-s06-q01

Which of these is the smallest: 0.45, 0.54, 0.405, 0.5?

- A. 0.405
- B. 0.45
- C. 0.5
- D. 0.54

Your answer: _____

52. processing-speed-s06-q02

Which number is closest to 500: 468, 529, 507, 490?

- A. 468
- B. 529

- C. 507
- D. 490

Your answer: _____

53. processing-speed-s06-q03

If you sort $\frac{3}{4}$, $\frac{2}{3}$, and $\frac{4}{5}$ from smallest to largest, which comes last?

- A. $\frac{2}{3}$
- B. $\frac{3}{4}$
- C. They are all equal
- D. $\frac{4}{5}$

Your answer: _____

54. processing-speed-s06-q04

Which is larger: 7×8 or 9×6 ?

- A. 9×6
- B. 7×8
- C. They are equal
- D. It cannot be determined

Your answer: _____

55. processing-speed-s06-q05

Which of these numbers is even AND greater than 50: 48, 62, 57, 45?

- A. 62
- B. 48
- C. 57
- D. 45

Your answer: _____

56. processing-speed-s06-q06

How many of these numbers are greater than 3.5: 3.09, 3.51, 3.499, 3.6, 3.55?

- A. 1
- B. 2
- C. 3
- D. 4

Your answer: _____

57. processing-speed-s06-q07

Which temperature is the coldest: -4° , 2° , -1° , -7° ?

- A. -4°
- B. 2°
- C. -1°

- D. -7°

Your answer: _____

58. processing-speed-s06-q08

Order these prices from lowest to highest: £9.09, £9.90, £9.19. Which sits in the middle?

- A. £9.09
- B. £9.19
- C. £9.90
- D. They cannot be ordered

Your answer: _____

59. processing-speed-s06-q09

Which fraction equals 0.25: $\frac{2}{5}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{3}{10}$?

- A. $\frac{2}{5}$
- B. $\frac{1}{3}$
- C. $\frac{1}{4}$
- D. $\frac{3}{10}$

Your answer: _____

60. processing-speed-s06-q10

Which number is a multiple of both 4 and 6: 36, 30, 40, 27?

- A. 36
- B. 30
- C. 40
- D. 27

Your answer: _____

Rapid sorting and classification

Apply each sorting rule quickly and decide where every entry belongs.

61. processing-speed-s07-q01

Which of these words is not a fruit: plum, kale, pear, mango?

- A. plum
- B. kale
- C. pear
- D. mango

Your answer: _____

62. processing-speed-s07-q02

Sorting rule: codes starting with a vowel go in Tray 1, all others in Tray 2. Which of these goes in Tray 1: TR-4, BX-7, MN-2, EF-5?

- A. TR-4
- B. BX-7
- C. MN-2
- D. EF-5

Your answer: _____

63. processing-speed-s07-q03

Which of these is a unit of time: litre, metre, minute, gram?

- A. litre
- B. metre
- C. minute
- D. gram

Your answer: _____

64. processing-speed-s07-q04

Sorting rule: even numbers go to Box A, odd numbers to Box B. How many of these go to Box A: 12, 7, 30, 55, 8?

- A. 3
- B. 2
- C. 4
- D. 5

Your answer: _____

65. processing-speed-s07-q05

Which word does not belong with the others: whisper, shout, murmur, mutter?

- A. whisper
- B. shout
- C. murmur
- D. mutter

Your answer: _____

66. processing-speed-s07-q06

Sorting rule: invoices under £100 are filed as 'small', and £100 or more as 'large'. Which of these is 'large': £86.50, £99.99, £75.00, £102.40?

- A. £86.50
- B. £99.99
- C. £75.00
- D. £102.40

Your answer: _____

67. processing-speed-s07-q07

Which of these animals is a reptile: otter, gecko, badger, hare?

- A. otter
- B. gecko
- C. badger
- D. hare

Your answer: _____

68. processing-speed-s07-q08

How many of these words name colours: crimson, violin, teal, ladder, indigo?

- A. 1
- B. 2
- C. 3
- D. 4

Your answer: _____

69. processing-speed-s07-q09

Sorting rule: words containing a double letter go left, all others go right. Which goes left: hammer, hotel, cradle, spiral?

- A. hammer
- B. hotel
- C. cradle
- D. spiral

Your answer: _____

70. processing-speed-s07-q10

Two rules: 'greater than 20' and 'even'. Which of these numbers fails BOTH rules: 24, 31, 18, 15?

- A. 24
- B. 31
- C. 18
- D. 15

Your answer: _____

Pattern continuation at pace

Spot the rule behind each sequence and continue it.

71. processing-speed-s08-q01

What comes next in the sequence: 4, 8, 12, 16, __?

- A. 18
- B. 19
- C. 20
- D. 24

Your answer: _____

72. processing-speed-s08-q02

What comes next in the sequence: 81, 72, 63, 54, ___?

- A. 45
- B. 44
- C. 46
- D. 43

Your answer: _____

73. processing-speed-s08-q03

What letter comes next: B, D, F, H, ___?

- A. G
- B. I
- C. K
- D. J

Your answer: _____

74. processing-speed-s08-q04

What number is missing: 5, 10, 20, 40, __, 160?

- A. 60
- B. 70
- C. 80
- D. 100

Your answer: _____

75. processing-speed-s08-q05

What comes next in the sequence: 2, 3, 5, 8, 12, ___?

- A. 16
- B. 17
- C. 18
- D. 19

Your answer: _____

76. processing-speed-s08-q06

The pattern ? ? ? repeats. Given ? ? ? ? ? ? ? , which symbol comes next?

- A. ?
- B. ?
- C. ?
- D. It cannot be determined

Your answer: _____

77. processing-speed-s08-q07

What comes next in the sequence: 1, 4, 9, 16, 25, __?

- A. 30
- B. 32
- C. 36
- D. 49

Your answer: _____

78. processing-speed-s08-q08

What letter comes next: A, C, F, J, __?

- A. M
- B. N
- C. P
- D. O

Your answer: _____

79. processing-speed-s08-q09

What comes next in the sequence: 64, 32, 16, 8, __?

- A. 2
- B. 4
- C. 6
- D. 0

Your answer: _____

80. processing-speed-s08-q10

What comes next in the alternating sequence: 3, 10, 5, 10, 7, 10, __?

- A. 9
- B. 10
- C. 11
- D. 8

Your answer: _____

Two-step operations

Chain two quick operations together without writing anything down.

81. processing-speed-s09-q01

Add $14 + 19$, then subtract 6. What is the result?

- A. 24
- B. 25
- C. 26
- D. 27

Your answer: _____

82. processing-speed-s09-q02

Double 17, then add 5. What is the result?

- A. 38
- B. 39
- C. 40
- D. 41

Your answer: _____

83. processing-speed-s09-q03

Take the number of days in a week, multiply it by 6, then subtract 2.

- A. 40
- B. 44
- C. 38
- D. 42

Your answer: _____

84. processing-speed-s09-q04

Count the vowels in 'operation', then multiply that count by 3.

- A. 9
- B. 12
- C. 15
- D. 18

Your answer: _____

85. processing-speed-s09-q05

How many of these results are even: $3 + 5$, $6 + 7$, $8 + 2$, $9 + 4$?

- A. 1
- B. 2
- C. 3
- D. 4

Your answer: _____

86. processing-speed-s09-q06

Start at 50 and subtract 8 three times. Where do you land?

- A. 42
- B. 34
- C. 30
- D. 26

Your answer: _____

87. processing-speed-s09-q07

Which is greater: 15% of 200, or 20% of 140?

- A. 15% of 200
- B. 20% of 140
- C. They are equal
- D. It cannot be determined

Your answer: _____

88. processing-speed-s09-q08

Multiply 6×9 , then reverse the digits of the answer. What do you get?

- A. 54
- B. 56
- C. 45
- D. 65

Your answer: _____

89. processing-speed-s09-q09

What is the sum of the digits of 478?

- A. 18
- B. 19
- C. 20
- D. 21

Your answer: _____

90. processing-speed-s09-q10

Count the letters in 'speed', square that number, then subtract 5.

- A. 10
- B. 15
- C. 18
- D. 20

Your answer: _____

Complex scanning under load

Combine scanning, counting, and rules. The heaviest load in the bank.

91. processing-speed-s10-q01

How many numbers in this list are BOTH odd AND greater than 40: 37, 45, 52, 61, 44, 39, 73?

- A. 1
- B. 2
- C. 3
- D. 4

Your answer: _____

92. processing-speed-s10-q02

How many characters in the string '7a4B9c1D6e' are BOTH digits AND odd?

- A. 3
- B. 2
- C. 4
- D. 5

Your answer: _____

93. processing-speed-s10-q03

Scan the string 'XOXXOOXOXX'. Which letter appears more often, and by how many?

- A. O, by 2
- B. X, by 1
- C. They appear equally often
- D. X, by 2

Your answer: _____

94. processing-speed-s10-q04

How many of these codes have digits summing to exactly 10: 5-4-1, 3-3-3, 2-6-2, 7-2-2, 4-4-2?

- A. 2
- B. 3
- C. 4
- D. 5

Your answer: _____

95. processing-speed-s10-q05

In the sentence 'Six sleek swans swam south past the stone bridge', how many words begin with the letter s?

- A. 4
- B. 5
- C. 6
- D. 7

Your answer: _____

96. processing-speed-s10-q06

Apply both rules to the list 18, 25, 32, 47, 56, 63. Rule 1: keep numbers over 30. Rule 2: of those, keep only the even ones. How many remain?

- A. 2
- B. 3
- C. 4
- D. 5

Your answer: _____

97. processing-speed-s10-q07

Two formatting rules: entries must start with two letters AND end with an even digit. Which entry breaks BOTH rules: AB12, 7Q34, 9K33, CD57?

- A. AB12
- B. 7Q34
- C. 9K33
- D. CD57

Your answer: _____

98. processing-speed-s10-q08

In the string '3f82k91m4', add together only the digits that come immediately before a letter. What is the total?

- A. 3
- B. 4
- C. 5
- D. 6

Your answer: _____

99. processing-speed-s10-q09

Three of these times share the same minutes past the hour. Which is the odd one out: 14:25, 09:52, 16:25, 11:25?

- A. 14:25
- B. 09:52
- C. 16:25
- D. 11:25

Your answer: _____

100. processing-speed-s10-q10

Follow the chain: start with the number of letters in 'rapid', double it, add the number of vowels in 'audio', then subtract 4.

- A. 10
- B. 11
- C. 12
- D. 13

Your answer: _____

Authored hints

This cognitive practice source does not publish authored hints. Every item is listed as missing a hint, and no hint text is generated or inferred.

100 worksheet items do not have an authored hint. No hint text was generated for them.

Answer key

The answer key and worked explanations in this file belong only to this public, untimed educational practice source. No active aptitude suite or Novus Reasoning Challenge answer key is ever included in any download.

Processing speed: full practice bank: open practice pack answer key

Item	Choice	Answer
processing-speed-q1	C	5
processing-speed-q2	C	29
processing-speed-q3	C	6
processing-speed-q4	B	15
processing-speed-q5	B	2
processing-speed-q6	B	(45, 55)
processing-speed-s01-q07	A	4
processing-speed-s01-q08	D	99
processing-speed-s01-q09	A	3
processing-speed-s01-q10	D	3
processing-speed-s02-q01	A	4
processing-speed-s02-q02	C	4
processing-speed-s02-q03	B	3
processing-speed-s02-q04	D	4
processing-speed-s02-q05	A	3
processing-speed-s02-q06	C	q
processing-speed-s02-q07	B	3
processing-speed-s02-q08	D	6
processing-speed-s02-q09	A	2
processing-speed-s02-q10	C	6
processing-speed-s03-q01	B	43
processing-speed-s03-q02	D	35
processing-speed-s03-q03	A	56
processing-speed-s03-q04	C	83
processing-speed-s03-q05	B	54
processing-speed-s03-q06	D	36
processing-speed-s03-q07	A	15
processing-speed-s03-q08	C	50
processing-speed-s03-q09	B	38
processing-speed-s03-q10	D	100
processing-speed-s04-q01	C	GHT-4402
processing-speed-s04-q02	A	A) MZ-7719 / MZ-7719

processing-speed-s04-q03	D	D) PLO-880
processing-speed-s04-q04	B	Bramfield Lane 27
processing-speed-s04-q05	C	harbour
processing-speed-s04-q06	A	A) TK-9906 / TK-9096
processing-speed-s04-q07	D	60482-Q
processing-speed-s04-q08	B	Whitfield & Grayson Ltd
processing-speed-s04-q09	C	2
processing-speed-s04-q10	A	4535
processing-speed-s05-q01	D	213
processing-speed-s05-q02	B	W
processing-speed-s05-q03	A	DOOR
processing-speed-s05-q04	C	DBU
processing-speed-s05-q05	D	17
processing-speed-s05-q06	B	NEST
processing-speed-s05-q07	A	CNF
processing-speed-s05-q08	C	? ? ?
processing-speed-s05-q09	B	FACE
processing-speed-s05-q10	D	12
processing-speed-s06-q01	A	0.405
processing-speed-s06-q02	C	507
processing-speed-s06-q03	D	4/5
processing-speed-s06-q04	B	7 x 8
processing-speed-s06-q05	A	62
processing-speed-s06-q06	C	3
processing-speed-s06-q07	D	-7°
processing-speed-s06-q08	B	£9.19
processing-speed-s06-q09	C	1/4
processing-speed-s06-q10	A	36
processing-speed-s07-q01	B	kale
processing-speed-s07-q02	D	EF-5
processing-speed-s07-q03	C	minute
processing-speed-s07-q04	A	3
processing-speed-s07-q05	B	shout
processing-speed-s07-q06	D	£102.40
processing-speed-s07-q07	B	gecko
processing-speed-s07-q08	C	3
processing-speed-s07-q09	A	hammer
processing-speed-s07-q10	D	15
processing-speed-s08-q01	C	20
processing-speed-s08-q02	A	45

processing-speed-s08-q03	D	J
processing-speed-s08-q04	C	80
processing-speed-s08-q05	B	17
processing-speed-s08-q06	A	?
processing-speed-s08-q07	C	36
processing-speed-s08-q08	D	O
processing-speed-s08-q09	B	4
processing-speed-s08-q10	A	9
processing-speed-s09-q01	D	27
processing-speed-s09-q02	B	39
processing-speed-s09-q03	A	40
processing-speed-s09-q04	C	15
processing-speed-s09-q05	B	2
processing-speed-s09-q06	D	26
processing-speed-s09-q07	A	15% of 200
processing-speed-s09-q08	C	45
processing-speed-s09-q09	B	19
processing-speed-s09-q10	D	20
processing-speed-s10-q01	C	3
processing-speed-s10-q02	A	3
processing-speed-s10-q03	D	X, by 2
processing-speed-s10-q04	B	3
processing-speed-s10-q05	C	6
processing-speed-s10-q06	A	2
processing-speed-s10-q07	C	9K33
processing-speed-s10-q08	D	6
processing-speed-s10-q09	B	09:52
processing-speed-s10-q10	A	10

Worked explanations

processing-speed-q1: The digit 7 appears 5 times: 7192747378179.

processing-speed-q2: 12, 18, 24, and 36 are all multiples of 6; 29 is not.

processing-speed-q3: The vowels are e, a, o, u, e, i, six in total.

processing-speed-q4: The sequence increases by 3 each step, so the missing number is 15.

processing-speed-q5: The digits '1,1' and '5,5' are each adjacent and identical, 2 pairs total.

processing-speed-q6: $45 + 55 = 100$. The others sum to 101, 101, and 99 respectively.

processing-speed-s01-q07: Scanning only the first letter of each word, four begin with B: banana, berry, bread, and basket.

processing-speed-s01-q08: Compare the tens digit first: 98 and 99 beat the 80s, and 99 beats 98 on the units digit.

processing-speed-s01-q09: Ticking off each letter in turn (b, a, n, a, n, a) the letter 'a' appears three times.

processing-speed-s01-q10: A number is even when its last digit is 0, 2, 4, 6, or 8: here 8, 12, and 6 qualify, making three.

processing-speed-s02-q01: Move through the string one character at a time and tally each 'x':
o-x-k-x-v-e-x-n-x-o gives four.

processing-speed-s02-q02: Counting only the squares while ignoring the other shapes gives four: positions 1, 3, 6, and 8.

processing-speed-s02-q03: Only B, D, and F are upper case, three capitals in total.

processing-speed-s02-q04: Filtering out the letters leaves the digits 7, 2, 9, and 1, four in total.

processing-speed-s02-q05: Scanning for vowels only, the string contains o, e, and i, three vowels.

processing-speed-s02-q06: Tally each letter as you scan: p appears three times, q twice, and r and s once each.

processing-speed-s02-q07: Fixing on triangles only, they sit at positions 2, 5, and 8, three in total.

processing-speed-s02-q08: Only R and L are capitals, so the remaining six characters (t, e, z, p, m, s) are lower case.

processing-speed-s02-q09: Check each word for a 't' followed directly by an 'h': only moth and bath contain the pair.

processing-speed-s02-q10: With only two similar characters to separate, tally the 'o's in one pass: six of the nine characters are 'o'.

processing-speed-s03-q01: Add the tens first: $17 + 20 = 37$, then the units: $37 + 6 = 43$.

processing-speed-s03-q02: Subtract in two easy steps: $62 - 20 = 42$, then $42 - 7 = 35$.

processing-speed-s03-q03: $8 \times 7 = 56$; instant recall of the times tables is one of the biggest speed gains available.

processing-speed-s03-q04: Round 38 up to 40 for an easy sum, $45 + 40 = 85$, then take the 2 back off: 83.

processing-speed-s03-q05: Use $10 \times 6 = 60$ and subtract one 6: $60 - 6 = 54$.

processing-speed-s03-q06: Subtract 40 for a round number, $74 - 40 = 34$, then add back the 2 you over-subtracted: 36.

processing-speed-s03-q07: Halve three times: $120 \rightarrow 60 \rightarrow 30 \rightarrow 15$, because dividing by 8 is halving thrice.

processing-speed-s03-q08: Pair numbers that make round totals: $13 + 28 = 41$, and $41 + 9$ lands neatly on 50.

processing-speed-s03-q09: Halve the parts separately: half of 70 is 35, half of 6 is 3, and $35 + 3 = 38$.

processing-speed-s03-q10: Four 25s make 100: the same fact that makes four 25p coins a pound is worth keeping on instant recall.

processing-speed-s04-q01: Check letters first, then digits in order. The near-misses transpose the H and T, swap the final digits, or shuffle the 4s.

processing-speed-s04-q02: Only one pair repeats its string exactly; the others transpose the last digits (7791), swap the letters (ZM), or alter a middle digit (7119).

processing-speed-s04-q03: Three codes read PLQ-880, while the odd one out swaps the letter Q for the visually similar letter O to read PLO-880.

processing-speed-s04-q04: Read the street name letter by letter and the number digit by digit: the near-misses reverse 27, add a stray p, or change the 7 to a 1.

processing-speed-s04-q05: The spelling 'harbour' appears in the first and third positions; 'harbor' drops the u and 'arbour' drops the h, so neither is a repeat.

processing-speed-s04-q06: TK-9906 and TK-9096 differ in their middle digits, 90 versus 09, while every other pair repeats its string exactly.

processing-speed-s04-q07: Compare digit positions one at a time, then the letter: the near-misses transpose 82, swap Q for O, or move the 4.

processing-speed-s04-q08: Check each word in turn: the traps change Gray to Grey, add an extra e to Whitfield, or spell out the ampersand.

processing-speed-s04-q09: The first and third codes match exactly; 2281-DV reverses the letters and 2218-VD transposes the middle digits.

processing-speed-s04-q10: Scan each code for a repeat: 4535 contains the digit 5 twice, while the other codes use four different digits.

processing-speed-s05-q01: Substitute one symbol at a time in the order shown: ? is 2, ? is 1, ? is 3, giving 213.

processing-speed-s05-q02: Each letter maps to the letter the same distance from the far end: D is 4th from the start, and 4th from the end is W.

processing-speed-s05-q03: Decode digit by digit in order: 3 is D, 4 is O, 4 is O again, 1 is R, spelling DOOR.

processing-speed-s05-q04: Apply the shift to every letter, not just some: C moves to D, A moves to B, and T moves to U.

processing-speed-s05-q05: Convert every symbol before adding, and note the repeated ?: $4 + 7 + 2 + 4 = 17$.

processing-speed-s05-q06: All four options use the same letters, so the order is everything: 2-4-6-8 decodes strictly as N, E, S, T.

processing-speed-s05-q07: Step every letter back once: D to C, O to N, and G to F.

processing-speed-s05-q08: Encode in the order the letters appear: R gives ?, P gives ?, Q gives ?. Watch for the option that swaps the last two.

processing-speed-s05-q09: Convert each number in sequence: 6 is F, 1 is A, 3 is C, 5 is E, FACE.

processing-speed-s05-q10: B is 2 and each E is 5, so the total is $2 + 5 + 5 = 12$.

processing-speed-s06-q01: Line the decimals up place by place: 0.405 has 4 tenths like 0.45, but its hundredths digit is 0 against 5, so it is smaller.

processing-speed-s06-q02: Compare each gap from 500 rather than the numbers themselves: 32, 29, 7, and 10. The smallest gap is 7.

processing-speed-s06-q03: Convert to decimals for a quick comparison: $2/3 \approx 0.67$, $3/4 = 0.75$, and $4/5 = 0.8$, so $4/5$ is largest.

processing-speed-s06-q04: Work both products before comparing: $7 \times 8 = 56$ beats $9 \times 6 = 54$.

processing-speed-s06-q05: Test both conditions on each number: 48 is even but too small, 57 is large enough but odd, and 45 fails both, only 62 passes both.

processing-speed-s06-q06: Compare digit by digit after the decimal point: 3.51, 3.6, and 3.55 exceed 3.5, while 3.499 falls just short.

processing-speed-s06-q07: With negative numbers the larger the digit, the colder the value: -7° sits furthest below zero.

processing-speed-s06-q08: The pounds match, so compare pence: $09 < 19 < 90$ puts £9.19 in the middle.

processing-speed-s06-q09: 0.25 is a quarter: 1 divided by 4. The others convert to 0.4, roughly 0.33, and 0.3.

processing-speed-s06-q10: Test each candidate against both divisors: $36 = 4 \times 9$ and 6×6 , while 30 fails on 4, 40 fails on 6, and 27 fails on both.

processing-speed-s07-q01: Name the category of each word as you scan: plum, pear, and mango are fruits, while kale is a leafy vegetable.

processing-speed-s07-q02: Only the first character matters for this rule: E is a vowel, while T, B, and M are not.

processing-speed-s07-q03: Sort by what each unit measures: litres measure volume, metres length, grams mass, only minutes measure time.

processing-speed-s07-q04: Check only the last digit of each number: 12, 30, and 8 are even, so three numbers go to Box A.

processing-speed-s07-q05: Group by meaning before choosing: whisper, murmur, and mutter all describe quiet speech, while shouting is loud.

processing-speed-s07-q06: Compare each amount against the £100 threshold and watch the boundary case: £99.99 is still under it, but £102.40 is over.

processing-speed-s07-q07: Classify each animal as you read: otters, badgers, and hares are mammals, while the gecko is a lizard, a reptile.

processing-speed-s07-q08: Sort each word into colour or not-colour as you go: crimson, teal, and indigo are colours; violin and ladder are objects.

processing-speed-s07-q09: Scan each word for two identical letters side by side: only 'hammer' has one, the double m.

processing-speed-s07-q10: Test both rules on each number: 24 passes both, 31 is over 20 but odd, 18 is even but too small, only 15 is both too small and odd.

processing-speed-s08-q01: Each term adds 4 to the one before, so $16 + 4 = 20$.

processing-speed-s08-q02: Check the gap between neighbours first: each step subtracts 9, so $54 - 9 = 45$.

processing-speed-s08-q03: The sequence skips one letter each time (B, skip C, D, skip E...), so after H comes J.

processing-speed-s08-q04: Each term doubles the previous one, and 80 fits both neighbours: $40 \times 2 = 80$ and $80 \times 2 = 160$.

processing-speed-s08-q05: The gaps themselves grow by one each step (+1, +2, +3, +4), so the next gap is +5, giving 17.

processing-speed-s08-q06: The three-symbol block ? ? ? cycles, and the seventh symbol starts a new block, so the eighth is the block's second symbol, ?.

processing-speed-s08-q07: These are the square numbers $1^2, 2^2, 3^2, 4^2, 5^2$, the next is $6^2 = 36$.

processing-speed-s08-q08: The jumps widen by one letter each time (+2, +3, +4), so the next jump of +5 lands on O.

processing-speed-s08-q09: Each term halves the previous one, so $8 \div 2 = 4$.

processing-speed-s08-q10: Read the alternating positions as two strands: a constant 10 and the odd numbers 3, 5, 7, the odd strand continues with 9.

processing-speed-s09-q01: Hold the intermediate total before applying the second step: $14 + 19 = 33$, then $33 - 6 = 27$.

processing-speed-s09-q02: Doubling 17 gives 34, and $34 + 5 = 39$.

processing-speed-s09-q03: Retrieve the fact first, then compute: 7 days $\times$ 6 = 42, and $42 - 2 = 40$.

processing-speed-s09-q04: 'Operation' contains the vowels o, e, a, i, o, five in total, and $5 \times 3 = 15$.

processing-speed-s09-q05: Work each sum, then classify it: 8 and 10 are even, while both 13s are odd, two even results.

processing-speed-s09-q06: Three subtractions of 8 remove 24 in total, so $50 - 24 = 26$, stopping early at 42 or 34 is the common slip.

processing-speed-s09-q07: Compute both before comparing: 15% of 200 is 30, while 20% of 140 is 28.

processing-speed-s09-q08: $6 \times 9 = 54$, and swapping its digits gives 45. The unreversed 54 is the trap to step past.

processing-speed-s09-q09: Treat each digit separately and add: $4 + 7 + 8 = 19$.

processing-speed-s09-q10: 'Speed' has 5 letters; 5 squared is 25, and $25 - 5 = 20$.

processing-speed-s10-q01: Apply both tests to every number: 45, 61, and 73 pass, while 37 and 39 are odd but not large enough.

processing-speed-s10-q02: First isolate the digits (7, 4, 9, 1, 6), then keep only the odd ones: 7, 9, and 1.

processing-speed-s10-q03: Tally both letters in a single pass: X appears 6 times and O appears 4 times, a margin of 2.

processing-speed-s10-q04: Sum each code and compare with 10: the totals are 10, 9, 10, 11, and 10, so three codes qualify.

processing-speed-s10-q05: Check only the first letter of each word and ignore s sounds inside words: Six, sleek, swans, swam, south, and stone make six.

processing-speed-s10-q06: Filter in stages: over 30 leaves 32, 47, 56, 63; keeping the evens then leaves just 32 and 56.

processing-speed-s10-q07: Score each entry against both rules separately: 7Q34 and CD57 each break only one rule, while 9K33 starts with a digit and ends with an odd digit.

processing-speed-s10-q08: Walk the string and keep a digit only when the very next character is a letter: 3 before f, 2 before k, and 1 before m give $3 + 2 + 1 = 6$.

processing-speed-s10-q09: Compare only the minutes and watch for transposed digits: three times end in :25, while 09:52 reverses those digits to :52.

processing-speed-s10-q10: Take the chain one link at a time: 'rapid' has 5 letters, doubled is 10; 'audio' has 4 vowels (a, u, i, o), giving 14; and $14 - 4 = 10$.

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