3.20 Number Codes: 30-minute Pack

about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

In this test, each question shows how a word is turned into a number code, usually by giving one or two example words together with their codes. Work out the rule connecting the letters and the numbers, then apply exactly the same rule to answer the question. The rule may be a simple position in the alphabet (A=1, B=2, up to Z=26), the position with a number added or subtracted, the position doubled, or the position counted from the end of the alphabet instead (Z=1, Y=2, and so on). Some questions give you a word and ask for its code; others give you a code and ask you to work out the word. Choose the one option, A to E, that is correct. Study the worked example above before you begin.

Worked example. If the code for CAT is 3-1-20, what is the code for DOG? **Answer: 4-15-7.** Each letter is replaced by its position in the alphabet, counting A=1, B=2, C=3, and so on up to Z=26. So C=3, A=1, T=20, giving CAT the code 3-1-20. Using the same rule, D=4, O=15, G=7, so DOG has the code 4-15-7.

1 In a code, the word STORE is written 18-19-14-17-4. Which word does the code 11-4-21-4-17 stand for?

- ☐ A) LASER
- ☐ B) SHEER
- ☐ C) LEVER
- ☐ D) LEARN
- ☐ E) NOVEL

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2 In a code, the word LOW is written 15-12-4. What is the code for FIX?

- ☐ A) 21-18-3
- ☐ B) 21-18-4
- ☐ C) 8-11-26
- ☐ D) 3-6-21
- ☐ E) 21-18-2

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3 In a code, the word BADGE is written 4-3-6-9-7. What is the code for SPIKE?

- [ ] A) 20-18-11-13-7
- [ ] B) 38-32-18-22-10
- [ ] C) 22-19-12-14-8
- [ ] D) 20-17-10-12-6
- [ ] E) 21-18-11-13-7

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4 In a code, the word LEAST is written 15-8-4-22-23. What is the code for HINT?

- [ ] A) 6-7-12-18
- [ ] B) 9-10-15-21
- [ ] C) 11-12-17-23
- [ ] D) 12-13-18-24
- [ ] E) 24-27-42-60

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5 In this code, each letter's alphabet position has 5 added to it. Using this rule, the code for GATE is 12-6-25-10. What is the code for LAMP?

- [ ] A) 12-1-13-16
- [ ] B) 17-7-18-21
- [ ] C) 21-18-6-17
- [ ] D) 17-6-18-26
- [ ] E) 17-6-18-21

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6 In a code, the word WASH is written 27-5-23-12. What is the code for CAROL?

- [ ] A) 7-5-22-19-16
- [ ] B) 16-19-22-5-7
- [ ] C) 4-2-19-16-13
- [ ] D) 3-1-18-15-12
- [ ] E) 8-6-23-20-17

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7 In a code, the word CAM is written 4-2-14. What is the code for ION?

- [ ] A) 10-16-14
- [ ] B) 27-45-42
- [ ] C) 13-19-18
- [ ] D) 10-16-15
- [ ] E) 15-16-10

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8 In a code, the word FIB is written 9-12-5. What is the code for CLIMB?

- [ ] A) 4-13-10-14-3
- [ ] B) 6-15-13-16-5
- [ ] C) 5-14-11-15-4
- [ ] D) 6-15-12-16-5
- [ ] E) 9-36-27-39-6

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9 In a code, the word GOLF is written 21-45-36-18. Which word does the code 57-60-45-66-15 stand for?

- [ ] A) QUOTE
- [ ] B) STOVE
- [ ] C) START
- [ ] D) GOOSE
- [ ] E) SHOCK

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10 In a code, the word DRAIN is written 4-18-1-9-14. Which word does the code 19-20-18-9-16 stand for?

- [ ] A) STUCK
- [ ] B) STACK
- [ ] C) STRIP
- [ ] D) SCRUB
- [ ] E) SWAMP

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11 In a code, the word MYTH is written 17-29-24-12. What is the code for PART?

- ☐ A) 21-6-23-25
- ☐ B) 19-4-21-23
- ☐ C) 20-5-22-24
- ☐ D) 32-2-36-40
- ☐ E) 24-22-5-20

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12 In a code, the word TENT is written 21-6-15-21. What is the code for BEAM?

- ☐ A) 3-6-2-14
- ☐ B) 5-8-4-16
- ☐ C) 6-9-5-17
- ☐ D) 7-10-6-18
- ☐ E) 6-15-3-39

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13 In a code, the word PLANK is written 32-24-2-28-22. What is the code for HERON?

- ☐ A) 6-3-16-13-12
- ☐ B) 12-9-22-19-18
- ☐ C) 5-2-15-12-11
- ☐ D) 17-10-36-30-28
- ☐ E) 16-10-36-30-28

---

14 Using the code where each letter is replaced by its alphabet position (A=1, B=2, up to Z=26), for example RING = 18-9-14-7, which word does the code 3-1-18-4 represent?

- ☐ A) WARD
- ☐ B) CORD
- ☐ C) CARD
- ☐ D) CARE
- ☐ E) CART

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15 In a code, the word LET is written 9-2-17. What is the code for POLE?

- [ ] A) 13-12-9-2
- [ ] B) 11-12-15-22
- [ ] C) 15-14-11-4
- [ ] D) 19-18-15-8
- [ ] E) 20-19-16-9

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16 In a code, the word FRY is written 9-21-28. What is the code for OFTEN?

- [ ] A) 19-10-24-9-18
- [ ] B) 16-7-21-6-15
- [ ] C) 15-6-20-5-14
- [ ] D) 13-4-18-3-12
- [ ] E) 18-9-23-8-17

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17 In a code, the word WITCH is written 46-18-40-6-16. What is the code for SNACK?

- [ ] A) 22-6-2-28-38
- [ ] B) 38-28-2-6-22
- [ ] C) 22-17-4-6-14
- [ ] D) 21-16-3-5-13
- [ ] E) 24-19-6-8-16

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18 In a code, the word YAW is written 29-5-27. What is the code for DAFT?

- [ ] A) 8-6-10-24
- [ ] B) 6-3-8-22
- [ ] C) 4-1-6-20
- [ ] D) 8-5-10-24
- [ ] E) 8-2-12-40

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19 In a code, the word CAME is written 7-5-17-9. What is the code for BUGGY?

- [ ] A) 6-63-21-21-75
- [ ] B) 7-26-12-12-30
- [ ] C) 6-25-11-11-29
- [ ] D) 4-23-9-9-27
- [ ] E) 3-22-8-8-26

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20 In a code, the word ALL is written 2-24-24. What is the code for ROB?

- [ ] A) 17-14-1
- [ ] B) 35-30-4
- [ ] C) 20-17-4
- [ ] D) 21-18-5
- [ ] E) 36-30-4

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21 In a code, the word RIGHT is written 20-11-9-10-22. What is the code for UPSET?

- [ ] A) 22-7-21-18-23
- [ ] B) 21-16-19-5-20
- [ ] C) 23-18-21-7-21
- [ ] D) 23-18-21-7-22
- [ ] E) 19-14-17-3-18

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22 In a code, the word CREEK is written 24-9-22-22-16. Which word does the code 22-26-9-15-2 stand for?

- [ ] A) NEWLY
- [ ] B) CARRY
- [ ] C) PANSY
- [ ] D) EARLY
- [ ] E) WORRY

---

23 Using the code where each letter is replaced by its alphabet position (A=1, B=2, up to Z=26), for example RING = 18-9-14-7, which word does the code 2-15-12-4 represent?

- [ ] A) COLD
- [ ] B) GOLD
- [ ] C) BOLT
- [ ] D) BOND
- [ ] E) BOLD

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24 In a code, the word GUESS is written 21-63-15-57-57. Which word does the code 3-36-15-54-60 stand for?

- [ ] A) ALLOW
- [ ] B) ALERT
- [ ] C) SCENT
- [ ] D) ALLEY
- [ ] E) ANGRY

---

25 In a code, the word SPILL is written 8-11-18-15-15. Which word does the code 24-12-6-13-7 stand for?

- [ ] A) COUNT
- [ ] B) MOUTH
- [ ] C) ROBOT
- [ ] D) FAULT
- [ ] E) ADULT

---

26 In a code, the word SHORT is written 38-16-30-36-40. What is the code for JULY?

- [ ] A) 15-26-17-30
- [ ] B) 19-42-24-50
- [ ] C) 30-63-36-75
- [ ] D) 20-42-24-50
- [ ] E) 8-19-10-23

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27 In a code, the word OTHER is written 12-7-19-22-9. What is the code for BAKER?

- [ ] A) 25-26-16-22-9
- [ ] B) 3-2-12-6-19
- [ ] C) 25-26-15-22-9
- [ ] D) 7-6-16-10-23
- [ ] E) 5-4-14-8-21

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28 In a code, the word FLASH is written 8-14-3-21-10. Which word does the code 21-14-3-5-13 stand for?

- [ ] A) POACH
- [ ] B) SAUCE
- [ ] C) THICK
- [ ] D) SLEET
- [ ] E) SLACK

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29 In a code, the word FALSE is written 6-1-12-19-5. Which word does the code 16-12-1-9-14 stand for?

- [ ] A) CHAIN
- [ ] B) SLACK
- [ ] C) BRAIN
- [ ] D) PLAIN
- [ ] E) PEACE

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30 In a code, the word HIPPO is written 11-12-19-19-18. What is the code for JUICE?

- [ ] A) 9-20-8-2-4
- [ ] B) 14-25-13-7-9
- [ ] C) 13-24-12-6-8
- [ ] D) 30-63-27-9-15
- [ ] E) 8-6-12-24-13

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31 In a code, the word REBEL is written 54-15-6-15-36. What is the code for WEARY?

- [ ] A) 69-15-3-54-75
- [ ] B) 24-6-2-19-26
- [ ] C) 26-8-4-21-28
- [ ] D) 46-10-2-36-50
- [ ] E) 27-9-5-22-29

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32 In a code, the word SEIZE is written 23-9-13-30-9. What is the code for SHUT?

- [ ] A) 21-10-23-22
- [ ] B) 22-12-25-24
- [ ] C) 38-16-42-40
- [ ] D) 20-9-22-21
- [ ] E) 23-12-25-24

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33 In a code, the word LORD is written 11-14-17-3. Which word does the code 20-6-11-24 stand for?

- [ ] A) WILL
- [ ] B) YELL
- [ ] C) WELL
- [ ] D) UGLY
- [ ] E) CALL

---

34 In a code, the word MESSY is written 17-9-23-23-29. What is the code for TOOTH?

- [ ] A) 17-12-12-17-5
- [ ] B) 24-19-19-24-12
- [ ] C) 19-14-14-19-7
- [ ] D) 20-15-15-20-8
- [ ] E) 12-24-19-19-24

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35 In a code, the word RATE is written 54-3-60-15. What is the code for HOARD?

- [ ] A) 13-20-6-23-9
- [ ] B) 12-54-3-45-24
- [ ] C) 24-45-3-54-12
- [ ] D) 11-18-4-21-7
- [ ] E) 9-16-2-19-5

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36 In a code, the word GRAVE is written 14-36-2-44-10. What is the code for SMELL?

- [ ] A) 57-39-15-36-36
- [ ] B) 21-15-7-14-14
- [ ] C) 37-26-10-24-24
- [ ] D) 38-26-10-24-24
- [ ] E) 16-10-2-9-9

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37 In a code, the word TIGER is written 22-11-9-7-20. What is the code for HORSE?

- [ ] A) 10-17-20-21-7
- [ ] B) 24-45-54-57-15
- [ ] C) 19-12-9-8-22
- [ ] D) 6-13-16-17-3
- [ ] E) 12-19-22-23-9

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38 In a code, the word FORT is written 18-45-54-60. Which word does the code 6-3-21 stand for?

- [ ] A) JOG
- [ ] B) CUP
- [ ] C) BAG
- [ ] D) MAN
- [ ] E) POD

---

39 In a code, the word SAME is written 19-1-13-5. Which word does the code 19-14-21-7 stand for?

- [ ] A) SACK
- [ ] B) UNIT
- [ ] C) SORT
- [ ] D) SNUG
- [ ] E) THUD

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Mark scheme · 3.20 Number Codes: 30-minute Pack

Question 1

C) LEVER - 1 is subtracted from each letter's alphabet position: 11-4-21-4-17 decodes to LEVER **B1**

Answer: C) LEVER

Question 2

A) 21-18-3 - the alphabet is reversed: A=26, B=25 ... Z=1: FIX becomes 21-18-3 **B1**

Answer: A) 21-18-3

Question 3

E) 21-18-11-13-7 - each letter's alphabet position has 2 added to it: SPIKE becomes 21-18-11-13-7 **B1**

Answer: E) 21-18-11-13-7

Question 4

C) 11-12-17-23 - each letter's alphabet position has 3 added to it: HINT becomes 11-12-17-23 **B1**

Answer: C) 11-12-17-23

Question 5

E) 17-6-18-21 - alphabet position plus 5 for each letter (L=12+5=17, A=1+5=6, M=13+5=18, P=16+5=21) cao **B1**

Answer: E) 17-6-18-21

Question 6

A) 7-5-22-19-16 - each letter's alphabet position has 4 added to it: CAROL becomes 7-5-22-19-16 **B1**

Answer: A) 7-5-22-19-16

Question 7

D) 10-16-15 - each letter's alphabet position has 1 added to it: ION becomes 10-16-15 **B1**

Answer: D) 10-16-15

Question 8

D) 6-15-12-16-5 - each letter's alphabet position has 3 added to it: CLIMB becomes 6-15-12-16-5 **B1**

Answer: D) 6-15-12-16-5

Question 9

B) STOVE - each letter's alphabet position is multiplied by 3: 57-60-45-66-15 decodes to STOVE **B1**

Answer: B) STOVE

Question 10

C) STRIP - each letter is replaced by its place in the alphabet (A=1, B=2 ... Z=26): 19-20-18-9-16 decodes to STRIP **B1**

Answer: C) STRIP

Question 11

C) 20-5-22-24 - each letter's alphabet position has 4 added to it: PART becomes 20-5-22-24 **B1**

Answer: C) 20-5-22-24

Question 12

A) 3-6-2-14 - each letter's alphabet position has 1 added to it: BEAM becomes 3-6-2-14 **B1**

Answer: A) 3-6-2-14

Question 13

E) 16-10-36-30-28 - each letter's alphabet position is doubled: HERON becomes 16-10-36-30-28 **B1**

Answer: E) 16-10-36-30-28

Question 14

C) CARD - decodes as C=3, A=1, R=18, D=4 cao **B1**

Answer: C) CARD

Question 15

A) 13-12-9-2 - 3 is subtracted from each letter's alphabet position: POLE becomes 13-12-9-2 **B1**

Answer: A) 13-12-9-2

Question 16

E) 18-9-23-8-17 - each letter's alphabet position has 3 added to it: OFTEN becomes 18-9-23-8-17 **B1**

Answer: E) 18-9-23-8-17

Question 17

B) 38-28-2-6-22 - each letter's alphabet position is doubled: SNACK becomes 38-28-2-6-22 **B1**

Answer: B) 38-28-2-6-22

Question 18

D) 8-5-10-24 - each letter's alphabet position has 4 added to it: DAFT becomes 8-5-10-24 **B1**

Answer: D) 8-5-10-24

Question 19

C) 6-25-11-11-29 - each letter's alphabet position has 4 added to it: BUGGY becomes 6-25-11-11-29 **B1**

Answer: C) 6-25-11-11-29

Question 20

E) 36-30-4 - each letter's alphabet position is doubled: ROB becomes 36-30-4 **B1**

Answer: E) 36-30-4

Question 21

D) 23-18-21-7-22 - each letter's alphabet position has 2 added to it: UPSET becomes 23-18-21-7-22 **B1**

Answer: D) 23-18-21-7-22

Question 22

D) EARLY - the alphabet is reversed: A=26, B=25 ... Z=1: 22-26-9-15-2 decodes to EARLY **B1**

Answer: D) EARLY

Question 23

E) BOLD - decodes as B=2, O=15, L=12, D=4 cao **B1**

Answer: E) BOLD

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Question 24

B) ALERT - each letter's alphabet position is multiplied by 3: 3-36-15-54-60 decodes to ALERT **B1**

Answer: B) ALERT

Question 25

A) COUNT - the alphabet is reversed: A=26, B=25 ... Z=1: 24-12-6-13-7 decodes to COUNT **B1**

Answer: A) COUNT

Question 26

D) 20-42-24-50 - each letter's alphabet position is doubled: JULY becomes 20-42-24-50 **B1**

Answer: D) 20-42-24-50

Question 27

A) 25-26-16-22-9 - the alphabet is reversed: A=26, B=25 ... Z=1: BAKER becomes 25-26-16-22-9 **B1**

Answer: A) 25-26-16-22-9

Question 28

E) SLACK - each letter's alphabet position has 2 added to it: 21-14-3-5-13 decodes to SLACK **B1**

Answer: E) SLACK

Question 29

D) PLAIN - each letter is replaced by its place in the alphabet (A=1, B=2 ... Z=26): 16-12-1-9-14 decodes to PLAIN **B1**

Answer: D) PLAIN

Question 30

C) 13-24-12-6-8 - each letter's alphabet position has 3 added to it: JUICE becomes 13-24-12-6-8 **B1**

Answer: C) 13-24-12-6-8

Question 31

A) 69-15-3-54-75 - each letter's alphabet position is multiplied by 3: WEARY becomes 69-15-3-54-75 **B1**

Answer: A) 69-15-3-54-75

Question 32

E) 23-12-25-24 - each letter's alphabet position has 4 added to it: SHUT becomes 23-12-25-24 **B1**

Answer: E) 23-12-25-24

Question 33

D) UGLY - 1 is subtracted from each letter's alphabet position: 20-6-11-24 decodes to UGLY **B1**

Answer: D) UGLY

Question 34

B) 24-19-19-24-12 - each letter's alphabet position has 4 added to it: TOOTH becomes 24-19-19-24-12 **B1**

Answer: B) 24-19-19-24-12

Question 35

C) 24-45-3-54-12 - each letter's alphabet position is multiplied by 3: HOARD becomes 24-45-3-54-12 **B1**

Answer: C) 24-45-3-54-12

Question 36

D) 38-26-10-24-24 - each letter's alphabet position is doubled: SMELL becomes 38-26-10-24-24 **B1**

Answer: D) 38-26-10-24-24

Question 37

A) 10-17-20-21-7 - each letter's alphabet position has 2 added to it: HORSE becomes 10-17-20-21-7 **B1**

Answer: A) 10-17-20-21-7

Question 38

C) BAG - each letter's alphabet position is multiplied by 3: 6-3-21 decodes to BAG **B1**

Answer: C) BAG

Question 39

D) SNUG - each letter is replaced by its place in the alphabet (A=1, B=2 ... Z=26): 19-14-21-7 decodes to SNUG **B1**

Answer: D) SNUG

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