3.20 Number Codes: 10-minute Pack

about 10 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 this code, each letter's alphabet position has 1 taken away from it. Using this rule, the code for FISH is 5-8-18-7. What is the code for CORN?

- ☐ A) 3-15-18-14
- ☐ B) 2-14-17-13
- ☐ C) 2-13-17-13
- ☐ D) 13-17-14-2
- ☐ E) 2-14-17-12

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2 In a code, the word BED is written 4-10-8. Which word does the code 14-10-26 stand for?

- ☐ A) TAX
- ☐ B) MUG
- ☐ C) GAS
- ☐ D) GEM
- ☐ E) COT

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3 In a code, the word NINTH is written 13-18-13-7-19. What is the code for BASH?

- [ ] A) 25-26-8-19
- [ ] B) 4-2-38-16
- [ ] C) 3-2-20-9
- [ ] D) 7-6-24-13
- [ ] E) 6-5-23-12

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4 In a code, the word SPADE is written 8-11-26-23-22. Which word does the code 23-26-21-7 stand for?

- [ ] A) DAFT
- [ ] B) TROT
- [ ] C) BANK
- [ ] D) BAND
- [ ] E) HAWK

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5 In a code, the word BUG is written 6-63-21. What is the code for TEASE?

- [ ] A) 60-15-3-57-15
- [ ] B) 22-7-3-21-7
- [ ] C) 40-10-2-38-10
- [ ] D) 60-15-3-58-15
- [ ] E) 23-8-4-22-8

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6 In a code, the word DOUBT is written 6-17-23-4-22. Which word does the code 11-20-3-22-7 stand for?

- [ ] A) ARISE
- [ ] B) PLANE
- [ ] C) TRUTH
- [ ] D) PRUNE
- [ ] E) IRATE

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7 In a code, the word LED is written 12-5-4. Which word does the code 9-14-11 stand for?

- ☐ A) INK
- ☐ B) COW
- ☐ C) BAY
- ☐ D) YAW
- ☐ E) GYM

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8 In a code, the word FILM is written 12-18-24-26. Which word does the code 38-22-18-28 stand for?

- ☐ A) DRIP
- ☐ B) SKIN
- ☐ C) NAIL
- ☐ D) CRIB
- ☐ E) SHOP

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9 In a code, the word ENTRY is written 15-42-60-54-75. What is the code for SHIRT?

- ☐ A) 23-12-13-22-24
- ☐ B) 16-5-6-15-17
- ☐ C) 18-7-8-17-19
- ☐ D) 57-24-27-54-60
- ☐ E) 17-6-7-16-18

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10 In a code, the word CUBE is written 7-25-6-9. What is the code for TRACK?

- ☐ A) 40-36-2-6-22
- ☐ B) 24-22-5-7-15
- ☐ C) 22-20-3-5-13
- ☐ D) 20-18-1-3-11
- ☐ E) 60-54-3-9-33

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11 In a code, the word POLE is written 16-15-12-5. What is the code for GOWN?

- ☐ A) 12-20-28-19
- ☐ B) 11-19-27-18
- ☐ C) 8-16-24-15
- ☐ D) 4-12-20-11
- ☐ E) 7-15-23-14

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12 In a code, the word MOLE is written 16-18-15-8. What is the code for BET?

- ☐ A) 4-8-23
- ☐ B) 25-22-7
- ☐ C) 2-5-20
- ☐ D) 4-10-40
- ☐ E) 5-8-23

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13 In a code, the word JUST is written 7-18-16-17. What is the code for DEER?

- ☐ A) 1-2-2-15
- ☐ B) 12-15-15-54
- ☐ C) 23-22-22-9
- ☐ D) 8-10-10-36
- ☐ E) 7-8-8-21

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Mark scheme · 3.20 Number Codes: 10-minute Pack

Question 1

B) 2-14-17-13 - alphabet position minus 1 for each letter (C=3-1=2, O=15-1=14, R=18-1=17, N=14-1=13) cao **B1**

Answer: B) 2-14-17-13

Question 2

D) GEM - each letter's alphabet position is doubled: 14-10-26 decodes to GEM **B1**

Answer: D) GEM

Question 3

A) 25-26-8-19 - the alphabet is reversed: A=26, B=25 ... Z=1: BASH becomes 25-26-8-19 **B1**

Answer: A) 25-26-8-19

Question 4

A) DAFT - the alphabet is reversed: A=26, B=25 ... Z=1: 23-26-21-7 decodes to DAFT **B1**

Answer: A) DAFT

Question 5

A) 60-15-3-57-15 - each letter's alphabet position is multiplied by 3: TEASE becomes 60-15-3-57-15 **B1**

Answer: A) 60-15-3-57-15

Question 6

E) IRATE - each letter's alphabet position has 2 added to it: 11-20-3-22-7 decodes to IRATE **B1**

Answer: E) IRATE

Question 7

A) INK - each letter is replaced by its place in the alphabet (A=1, B=2 ... Z=26): 9-14-11 decodes to INK **B1**

Answer: A) INK

Question 8

B) SKIN - each letter's alphabet position is doubled: 38-22-18-28 decodes to SKIN **B1**

Answer: B) SKIN

Question 9

D) 57-24-27-54-60 - each letter's alphabet position is multiplied by 3: SHIRT becomes 57-24-27-54-60 **B1**

Answer: D) 57-24-27-54-60

Question 10

B) 24-22-5-7-15 - each letter's alphabet position has 4 added to it: TRACK becomes 24-22-5-7-15 **B1**

Answer: B) 24-22-5-7-15

Question 11

E) 7-15-23-14 - each letter is replaced by its place in the alphabet (A=1, B=2 ... Z=26): GOWN becomes 7-15-23-14 **B1**

Answer: E) 7-15-23-14

Question 12

E) 5-8-23 - each letter's alphabet position has 3 added to it: BET becomes 5-8-23 **B1**

Answer: E) 5-8-23

Question 13

A) 1-2-2-15 - 3 is subtracted from each letter's alphabet position: DEER becomes 1-2-2-15 **B1**

Answer: A) 1-2-2-15

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