2.7 Mental Arithmetic: 1-hour Pack

ISEB CE.M7 · Calculator allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 12% of 320.

- [ ] A) 38.4
- [ ] B) 384
- [ ] C) 3.84
- [ ] D) 0.384
- [ ] E) 3840

---

2 Work out 0.2 × 0.06.

- [ ] A) 0.12
- [ ] B) 0.0012
- [ ] C) 0.00012
- [ ] D) 1.2
- [ ] E) 0.012

---

3 Work out 1.9 × 0.5.

- [ ] A) 0.095
- [ ] B) 95
- [ ] C) 0.95
- [ ] D) 0.0095
- [ ] E) 9.5

---

4 Work out 8.1 ÷ 0.9.

- [ ] A) 0.09
- [ ] B) 0.9
- [ ] C) 90
- [ ] D) 9
- [ ] E) 900

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5 Work out 5% of 320.

- [ ] A) 160
- [ ] B) 1.6
- [ ] C) 1600
- [ ] D) 0.16
- [ ] E) 16

---

6 Work out 0.8^3.

- [ ] A) 0.512
- [ ] B) 0.64
- [ ] C) 2.4
- [ ] D) 0.0512
- [ ] E) 0.00512

---

7 Work out $2.2 \div 0.2$.

- [ ] A) 1.1
- [ ] B) 110
- [ ] C) 11
- [ ] D) 0.11
- [ ] E) 0.44

---

8 Work out 0.5^2.

- [ ] A) 0.1
- [ ] B) 1
- [ ] C) 0.0025
- [ ] D) 0.25
- [ ] E) 2.5

---

9 Work out $0.35 \div 0.05$.

- [ ] A) 0.07
- [ ] B) 7
- [ ] C) 70
- [ ] D) 0.0175
- [ ] E) 0.7

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10 Work out 6^3.

- [ ] A) 21.6
- [ ] B) 2160
- [ ] C) 2.16
- [ ] D) 216
- [ ] E) 21600

---

11 Work out 0.4×8.

- [ ] A) 3.2
- [ ] B) 320
- [ ] C) 32
- [ ] D) 0.032
- [ ] E) 0.32

---

12 Work out 1.5×0.8.

- [ ] A) 0.012
- [ ] B) 12
- [ ] C) 0.12
- [ ] D) 120
- [ ] E) 1.2

---

13 Work out 1.1×0.04.

- [ ] A) 0.44
- [ ] B) 0.00044
- [ ] C) 0.044
- [ ] D) 4.4
- [ ] E) 0.0044

---

14 Work out 0.4^2.

- [ ] A) 0.0016
- [ ] B) 0.16
- [ ] C) 0.8
- [ ] D) 16
- [ ] E) 1.6

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15 Work out 1.8×0.5.

- [ ] A) 0.09
- [ ] B) 9
- [ ] C) 0.9
- [ ] D) 0.009
- [ ] E) 90

---

16 Work out 0.3×9.

- [ ] A) 27
- [ ] B) 0.27
- [ ] C) 270
- [ ] D) 2.7
- [ ] E) 0.027

---

17 Work out 7^3.

- [ ] A) 343
- [ ] B) 3430
- [ ] C) 49
- [ ] D) 34.3
- [ ] E) 34300

---

18 Work out the square root of 0.0016.

- [ ] A) 0.004
- [ ] B) 0.0004
- [ ] C) 0.08
- [ ] D) 4
- [ ] E) 0.04

---

19 Work out $6.6 \div 0.6$.

- [ ] A) 3.96
- [ ] B) 11
- [ ] C) 1100
- [ ] D) 1.1
- [ ] E) 0.11

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20 Work out 1.1^2.

- [ ] A) 0.22
- [ ] B) 0.0121
- [ ] C) 1.21
- [ ] D) 2.2
- [ ] E) 12.1

---

21 Work out 0.9×0.7.

- [ ] A) 63
- [ ] B) 0.063
- [ ] C) 6.3
- [ ] D) 0.0063
- [ ] E) 0.63

---

22 Work out 8^3.

- [ ] A) 512
- [ ] B) 64
- [ ] C) 51200
- [ ] D) 51.2
- [ ] E) 5.12

---

23 Work out 5^3.

- [ ] A) 12500
- [ ] B) 12.5
- [ ] C) 1250
- [ ] D) 125
- [ ] E) 25

---

24 Work out 0.6^2.

- [ ] A) 1.2
- [ ] B) 0.36
- [ ] C) 0.036
- [ ] D) 0.0036
- [ ] E) 36

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25 Work out 0.5×0.5.

- [ ] A) 0.0025
- [ ] B) 0.025
- [ ] C) 0.25
- [ ] D) 2.5
- [ ] E) 25

---

26 Work out $0.99 \div 0.09$.

- [ ] A) 0.0891
- [ ] B) 1100
- [ ] C) 11
- [ ] D) 110
- [ ] E) 1.1

---

27 Work out 0.7^2.

- [ ] A) 0.049
- [ ] B) 0.49
- [ ] C) 0.0049
- [ ] D) 49
- [ ] E) 0.14

---

28 Work out $0.6 \div 0.2$.

- [ ] A) 30
- [ ] B) 300
- [ ] C) 0.3
- [ ] D) 3
- [ ] E) 0.03

---

29 Work out 1×0.03.

- [ ] A) 0.03
- [ ] B) 0.3
- [ ] C) 0.003
- [ ] D) 0.0003
- [ ] E) 3

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30 Work out 1.5^2.

- [ ] A) 3
- [ ] B) 0.0225
- [ ] C) 22.5
- [ ] D) 225
- [ ] E) 2.25

---

31 Work out 0.9×7.

- [ ] A) 0.063
- [ ] B) 0.63
- [ ] C) 6.3
- [ ] D) 630
- [ ] E) 63

---

32 Work out 0.5^3.

- [ ] A) 12.5
- [ ] B) 0.25
- [ ] C) 0.00125
- [ ] D) 0.125
- [ ] E) 0.0125

---

33 Work out 1.4×0.2.

- [ ] A) 0.028
- [ ] B) 0.28
- [ ] C) 28
- [ ] D) 0.0028
- [ ] E) 2.8

---

34 Work out $1.2 \div 0.3$.

- [ ] A) 4
- [ ] B) 0.25
- [ ] C) 0.36
- [ ] D) 0.4
- [ ] E) 0.04

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35 Work out 0.11^2.

- [ ] A) 0.022
- [ ] B) 1.21
- [ ] C) 0.121
- [ ] D) 0.22
- [ ] E) 0.0121

---

36 Work out 0.6×4.

- [ ] A) 2.4
- [ ] B) 240
- [ ] C) 24
- [ ] D) 0.024
- [ ] E) 0.24

---

37 Work out 12% of 40.

- [ ] A) 0.048
- [ ] B) 4.8
- [ ] C) 48
- [ ] D) 0.48
- [ ] E) 480

---

38 Work out 0.9^3.

- [ ] A) 72.9
- [ ] B) 7.29
- [ ] C) 0.729
- [ ] D) 0.0729
- [ ] E) 0.81

---

39 Work out 25% of 300.

- [ ] A) 7500
- [ ] B) 7.5
- [ ] C) 750
- [ ] D) 75
- [ ] E) 0.75

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40 Work out 0.5×5.

- [ ] A) 0.025
- [ ] B) 250
- [ ] C) 25
- [ ] D) 0.25
- [ ] E) 2.5

---

41 Work out 0.8×0.6.

- [ ] A) 4.8
- [ ] B) 48
- [ ] C) 0.0048
- [ ] D) 0.48
- [ ] E) 0.048

---

42 Work out 1.5×0.6.

- [ ] A) 90
- [ ] B) 0.009
- [ ] C) 0.9
- [ ] D) 0.09
- [ ] E) 9

---

43 Work out $0.9 \div 0.09$.

- [ ] A) 1
- [ ] B) 100
- [ ] C) 0.081
- [ ] D) 1000
- [ ] E) 10

---

44 Work out 0.2^2.

- [ ] A) 0.4
- [ ] B) 0.04
- [ ] C) 4
- [ ] D) 0.0004
- [ ] E) 0.004

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45 Work out 6 + 3 x 4 - 5.

(2)

---

46 Work out 0.42 ÷ 0.06.

- ☐ A) 7
- ☐ B) 0.0252
- ☐ C) 0.07
- ☐ D) 0.7
- ☐ E) 700

---

47 Work out 2.8 ÷ 0.4.

- ☐ A) 0.07
- ☐ B) 1.12
- ☐ C) 7
- ☐ D) 0.7
- ☐ E) 700

---

48 Work out 0.9 ÷ 0.3.

- ☐ A) 0.27
- ☐ B) 30
- ☐ C) 300
- ☐ D) 0.3
- ☐ E) 3

---

49 Work out 35% of 380.

- ☐ A) 1330
- ☐ B) 133
- ☐ C) 13300
- ☐ D) 13.3
- ☐ E) 1.33

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50 Work out 1.5×0.07.

- [ ] A) 0.105
- [ ] B) 10.5
- [ ] C) 0.0105
- [ ] D) 0.00105
- [ ] E) 1.05

---

51 Work out 0.02^2.

- [ ] A) 0.004
- [ ] B) 0.04
- [ ] C) 0.000004
- [ ] D) 0.0004
- [ ] E) 0.00004

---

52 Work out 0.8×5.

- [ ] A) 40
- [ ] B) 400
- [ ] C) 4
- [ ] D) 0.4
- [ ] E) 0.04

---

53 Work out 10% of 60.

- [ ] A) 0.6
- [ ] B) 6
- [ ] C) 0.06
- [ ] D) 60
- [ ] E) 600

---

54 Work out 0.5^3.

- [ ] A) 0.125
- [ ] B) 0.0125
- [ ] C) 1.25
- [ ] D) 1.5
- [ ] E) 0.25

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55 Work out 0.8 × 3.

- ☐ A) 0.024
- ☐ B) 0.24
- ☐ C) 240
- ☐ D) 24
- ☐ E) 2.4

---

56 Work out -8 + 15 - (-6).

(2)

---

57 Work out 0.5 × 0.07.

- ☐ A) 0.0035
- ☐ B) 0.35
- ☐ C) 3.5
- ☐ D) 0.035
- ☐ E) 0.00035

---

58 Work out 0.9^2.

- ☐ A) 0.18
- ☐ B) 81
- ☐ C) 0.81
- ☐ D) 8.1
- ☐ E) 0.081

---

59 Work out 15% of 100.

- ☐ A) 0.15
- ☐ B) 15
- ☐ C) 150
- ☐ D) 1500
- ☐ E) 1.5

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60 Work out the square root of 0.0004.

- [ ] A) 0.2
- [ ] B) 0.002
- [ ] C) 0.0002
- [ ] D) 2
- [ ] E) 0.02

---

61 Work out 0.3^3.

- [ ] A) 2.7
- [ ] B) 0.00027
- [ ] C) 0.0027
- [ ] D) 0.027
- [ ] E) 0.27

---

62 Work out 0.4×9.

- [ ] A) 3.6
- [ ] B) 0.36
- [ ] C) 36
- [ ] D) 360
- [ ] E) 0.036

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Mark scheme · 2.7 Mental Arithmetic: 1-hour Pack

Question 1

A cao (38.4); work with whole numbers, then place the decimal point **B1**

Answer: A) 38.4

Question 2

E cao (0.012); work with whole numbers, then place the decimal point **B1**

Answer: E) 0.012

Question 3

C cao (0.95); work with whole numbers, then place the decimal point **B1**

Answer: C) 0.95

Question 4

D cao (9); work with whole numbers, then place the decimal point **B1**

Answer: D) 9

Question 5

E cao (16); work with whole numbers, then place the decimal point **B1**

Answer: E) 16

Question 6

A cao (0.512); work with whole numbers, then place the decimal point **B1**

Answer: A) 0.512

Question 7

C cao (11); work with whole numbers, then place the decimal point **B1**

Answer: C) 11

Question 8

D cao (0.25); work with whole numbers, then place the decimal point **B1**

Answer: D) 0.25

Question 9

B cao (7); work with whole numbers, then place the decimal point **B1**

Answer: B) 7

Question 10

D cao (216); work with whole numbers, then place the decimal point **B1**

Answer: D) 216

Question 11

A cao (3.2); work with whole numbers, then place the decimal point **B1**

Answer: A) 3.2

Question 12

E cao (1.2); work with whole numbers, then place the decimal point **B1**

Answer: E) 1.2

Question 13

C cao (0.044); work with whole numbers, then place the decimal point **B1**

Answer: C) 0.044

Question 14

B cao (0.16); work with whole numbers, then place the decimal point **B1**

Answer: B) 0.16

Question 15

C cao (0.9); work with whole numbers, then place the decimal point **B1**

Answer: C) 0.9

Question 16

D cao (2.7); work with whole numbers, then place the decimal point **B1**

Answer: D) 2.7

Question 17

A cao (343); work with whole numbers, then place the decimal point **B1**

Answer: A) 343

Question 18

E cao (0.04); work with whole numbers, then place the decimal point **B1**

Answer: E) 0.04

Question 19

B cao (11); work with whole numbers, then place the decimal point **B1**

Answer: B) 11

Question 20

C cao (1.21); work with whole numbers, then place the decimal point **B1**

Answer: C) 1.21

Question 21

E cao (0.63); work with whole numbers, then place the decimal point **B1**

Answer: E) 0.63

Question 22

A cao (512); work with whole numbers, then place the decimal point **B1**

Answer: A) 512

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Question 23

D cao (125); work with whole numbers, then place the decimal point **B1**

Answer: D) 125

Question 24

B cao (0.36); work with whole numbers, then place the decimal point **B1**

Answer: B) 0.36

Question 25

C cao (0.25); work with whole numbers, then place the decimal point **B1**

Answer: C) 0.25

Question 26

C cao (11); work with whole numbers, then place the decimal point **B1**

Answer: C) 11

Question 27

B cao (0.49); work with whole numbers, then place the decimal point **B1**

Answer: B) 0.49

Question 28

D cao (3); work with whole numbers, then place the decimal point **B1**

Answer: D) 3

Question 29

A cao (0.03); work with whole numbers, then place the decimal point **B1**

Answer: A) 0.03

Question 30

E cao (2.25); work with whole numbers, then place the decimal point **B1**

Answer: E) 2.25

Question 31

C cao (6.3); work with whole numbers, then place the decimal point **B1**

Answer: C) 6.3

Question 32

D cao (0.125); work with whole numbers, then place the decimal point **B1**

Answer: D) 0.125

Question 33

B cao (0.28); work with whole numbers, then place the decimal point **B1**

Answer: B) 0.28

Question 34

A cao (4); work with whole numbers, then place the decimal point **B1**

Answer: A) 4

Question 35

E cao (0.0121); work with whole numbers, then place the decimal point **B1**

Answer: E) 0.0121

Question 36

A cao (2.4); work with whole numbers, then place the decimal point **B1**

Answer: A) 2.4

Question 37

B cao (4.8); work with whole numbers, then place the decimal point **B1**

Answer: B) 4.8

Question 38

C cao (0.729); work with whole numbers, then place the decimal point **B1**

Answer: C) 0.729

Question 39

D cao (75); work with whole numbers, then place the decimal point **B1**

Answer: D) 75

Question 40

E cao (2.5); work with whole numbers, then place the decimal point **B1**

Answer: E) 2.5

Question 41

D cao (0.48); work with whole numbers, then place the decimal point **B1**

Answer: D) 0.48

Question 42

C cao (0.9); work with whole numbers, then place the decimal point **B1**

Answer: C) 0.9

Question 43

E cao (10); work with whole numbers, then place the decimal point **B1**

Answer: E) 10

Question 44

B cao (0.04); work with whole numbers, then place the decimal point **B1**

Answer: B) 0.04

Question 45

3 x 4 = 12 seen (correct order of operations) **M1**

13 cao **A1**

Answer: 13

Question 46

A cao (7); work with whole numbers, then place the decimal point **B1**

Answer: A) 7

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Question 47

C cao (7); work with whole numbers, then place the decimal point **B1**

Answer: C) 7

Question 48

E cao (3); work with whole numbers, then place the decimal point **B1**

Answer: E) 3

Question 49

B cao (133); work with whole numbers, then place the decimal point **B1**

Answer: B) 133

Question 50

A cao (0.105); work with whole numbers, then place the decimal point **B1**

Answer: A) 0.105

Question 51

D cao (0.0004); work with whole numbers, then place the decimal point **B1**

Answer: D) 0.0004

Question 52

C cao (4); work with whole numbers, then place the decimal point **B1**

Answer: C) 4

Question 53

B cao (6); work with whole numbers, then place the decimal point **B1**

Answer: B) 6

Question 54

A cao (0.125); work with whole numbers, then place the decimal point **B1**

Answer: A) 0.125

Question 55

E cao (2.4); work with whole numbers, then place the decimal point **B1**

Answer: E) 2.4

Question 56

- (-6) = + 6 oe **M1**

13 cao **A1**

Answer: 13

Question 57

D cao (0.035); work with whole numbers, then place the decimal point **B1**

Answer: D) 0.035

Question 58

C cao (0.81); work with whole numbers, then place the decimal point **B1**

Answer: C) 0.81

Question 59

B cao (15); work with whole numbers, then place the decimal point **B1**

Answer: B) 15

Question 60

E cao (0.02); work with whole numbers, then place the decimal point **B1**

Answer: E) 0.02

Question 61

D cao (0.027); work with whole numbers, then place the decimal point **B1**

Answer: D) 0.027

Question 62

A cao (3.6); work with whole numbers, then place the decimal point **B1**

Answer: A) 3.6

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