

Think & Learn  
ANSWERS



REVISED EDITION

# MATHS

MENTAL MATHEMATICS



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Maths Test 1

p. 3

- |               |                 |
|---------------|-----------------|
| 1. 65         | 2. 5 sides      |
| 3. 24 hours   | 4. 29           |
| 5. $90^\circ$ | 6. 4 minutes    |
| 7. 300        | 8. obtuse angle |
| 9. 3:45       | 10. 5.2         |
| 11. 1,200 g   | 12. 9,304       |
| 13. 1,080     | 14. 15 lots     |
| 15. 0.25      | 16. 62          |
| 17. 9 meters  | 18. $100^\circ$ |
| 19. 42        | 20. 14 cm       |

Maths Test 3

p. 5

- |                |                    |
|----------------|--------------------|
| 1. 75          | 2. 1               |
| 3. 101         | 4. 21 days         |
| 5. 12          | 6. 57              |
| 7. 322         | 8. 180 mins        |
| 9. $225^\circ$ | 10. 5,060          |
| 11. 19 lots    | 12. 10,307         |
| 13. 390        | 14. 250 ml         |
| 15. 0.1        | 16. $\frac{20}{7}$ |
| 17. 35         | 18. 25             |
| 19. 5 rubbers  | 20. 70             |

Maths Test 2

p. 4

- |               |               |
|---------------|---------------|
| 1. 72         | 2. 4 sides    |
| 3. 7 days     | 4. 75         |
| 5. 4          | 6. $14^\circ$ |
| 7. 90 minutes | 8. 4          |
| 9. 430        | 10. 30        |
| 11. 3,600 ml  | 12. 15,605    |
| 13. 460       | 14. 0.2       |
| 15. 12        | 16. 22        |
| 17. Southeast | 18. €2.20     |
| 19. 2,750 g   | 20. 64        |

Maths Test 4

p. 6

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|--------------------|--------------------|
| 1. 36              | 2. 31 days         |
| 3. 84              | 4. 2 edges         |
| 5. 9, 18, 27       | 6. 220             |
| 7. 5,300 g         | 8. 19,204          |
| 9. 0.4             | 10. 540 mins       |
| 11. 8,090          | 12. $1\frac{5}{6}$ |
| 13. 2 right angles | 14. 40             |
| 15. 1              | 16. 72             |
| 17. $59^\circ$     | 18. clockwise      |
| 19. 40             | 20. 18 quarters    |

Maths Test 5

p. 7

- |  |             |
|--|-------------|
| 1. 100                                 | 2. 3 lines  |
| 3. 9.05                                | 4. 52 weeks |
| 5. 225                                 | 6. 15       |
| 7. 40                                  | 8. 1,300    |
| 9. 0.75                                | 10. 173     |
| 11. 21 lots                            | 12. 9       |
| 13. East                               | 14. 102,402 |
| 15. 910                                | 16. 64      |
| 17. 2 euro 75 cents                    | 18. 13 cm   |
| 19. $\frac{22}{24}$ or $\frac{23}{24}$ | 20. 5.55    |

Maths Test 6

p. 8

- |                    |                    |
|--------------------|--------------------|
| 1. 90              | 2. 6 sides         |
| 3. 1, 2, 5, 10     | 4. 72              |
| 5. $\frac{1}{3}$   | 6. 45 mins         |
| 7. 60              | 8. 95              |
| 9. $180^\circ$     | 10. $\frac{7}{12}$ |
| 11. 31 mm          | 12. 90,054         |
| 13. 6              | 14. 63             |
| 15. $\frac{7}{10}$ | 16. 40 girls       |
| 17. 100            | 18. 8              |
| 19. 8 cm           | 20. 5.5            |

Maths Test 7

p. 9

- |           |  |
|-----------|--|
| 1. 136    | 2. 10                                  |
| 3. 9      | 4. $180^\circ$                         |
| 5. 1 face | 6. 180 s                               |
| 7. 3,000  | 8. 0.07                                |
| 9. 21,509 | 10. 2,600                              |
| 11. 710   | 12. 11                                 |
| 13. 13    | 14. 1,800 ml                           |
| 15. 1.5   | 16. 74                                 |
| 17. 100   | 18. 8 bottles                          |
| 19. 81    | 20. $\frac{13}{15}$ or $\frac{14}{15}$ |

Maths Test 8

p. 10

- |                     |              |
|---------------------|--------------|
| 1. 21               | 2. 1         |
| 3. $360^\circ$      | 4. 750       |
| 5. 56 days          | 6. 670       |
| 7. 78               | 8. 46,680    |
| 9. 13               | 10. 9.8      |
| 11. 28.8            | 12. 270 mins |
| 13. $1\frac{4}{12}$ | 14. 0.7      |
| 15. 165 cm          | 16. 28       |
| 17. $\frac{48}{84}$ | 18. 20 cm    |
| 19. South           | 20. 28       |

## Maths Test 9

p. 11

1. 365 days
2. 0
3.  $180^\circ$
4. 100
5. 72
6. 35 mins
7. 64
8. 30 mins
9. 81
10.  $6\frac{4}{5}$
11. 2.5 km
12. 17,002
13. 36
14. 23 lots
15. 0.75
16. 91 days
17.  $1\frac{3}{8}$
18. 17
19. 100 boys
20.  $162\text{ cm}^2$

## Maths Test 10

p. 12

1. 750
2. 1
3. 307
4. 0
5. 88
6. 6.4
7.  $30^\circ$
8. 5 and 6
9. 1,040
10. 800
11. 420 mins
12. 26
13. 190
14. 0.06
15. 48
16. 36
17. 90 mins
18. 33
19. 26
20. €3.80

## Maths Test 11

p. 13

1. 460
2. 2
3. 12 edges
4. 30 s
5. 64
6. 210
7.  $84^\circ$
8. 13, 15, 17, 19
9.  $180^\circ$
10. 9,013
11. 2,400 m
12. 420
13. 480
14. 12 lots
15. 9
16.  $30^\circ$
17. 60 coins
18.  $6\frac{1}{6}$
19. 400 m
20. 2,250g

## Maths Test 12

p. 14

1. 82
2. 8 vertices
3. 102
4. 1,260
5. 42 days
6. 1,072
7. 37.2
8. 4
9. 12 lots
10. 30 mins
11. 105
12. 36
13.  $\frac{9}{8}$
14. 280
15.  $60^\circ$
16. 15
17. 77
18. 300
19. 80
20. 11 pencils

Maths Test 13

p. 15

- |                   |                         |
|-------------------|-------------------------|
| 1. 70             | 2. 3                    |
| 3. 45 mins        | 4. 5                    |
| 5. 81             | 6. 120 mins             |
| 7. 4.6            | 8. 270°                 |
| 9. 120 m          | 10. 4.9                 |
| 11. 1,600 ml      | 12. 10,025              |
| 13. 33            | 14. True                |
| 15. $\frac{3}{2}$ | 16. 120                 |
| 17. 33 pieces     | 18. $\frac{12}{32}$     |
| 19. 315°          | 20. 132 cm <sup>2</sup> |

Maths Test 14

p. 16

- |                   |              |
|-------------------|--------------|
| 1. 240            | 2. 28 days   |
| 3. 36             | 4. 0         |
| 5. even           | 6. 40        |
| 7. $\frac{9}{15}$ | 8. 20        |
| 9. 20°            | 10. 4,090    |
| 11. 11.6          | 12. 22 mm    |
| 13. 100           | 14. 300 mins |
| 15. 0.4           | 16. 133      |
| 17. 24            | 18. 9        |
| 19. 1.95 kg       | 20. 1,040 g  |

Maths Test 15

p. 17

- |                   |                        |
|-------------------|------------------------|
| 1. 55             | 2. 2 faces             |
| 3. 8              | 4. 49                  |
| 5. 1,000          | 6. 15.6                |
| 7. 15 mins        | 8. 255                 |
| 9. 160            | 10. 12                 |
| 11. 40            | 12. 91°                |
| 13. 10,062        | 14. 100                |
| 15. 160 cm        | 16. $\frac{33}{6}$     |
| 17. 20            | 18. 36 cm <sup>2</sup> |
| 19. $\frac{2}{5}$ | 20. $\frac{1}{15}$     |

Maths Test 16

p. 18

- |                  |               |
|------------------|---------------|
| 1. 49            | 2. 1,001c     |
| 3. 300           | 4. 12, 18, 24 |
| 5. 13            | 6. 40 mins    |
| 7. 100°          | 8. 750 m      |
| 9. 90            | 10. 430       |
| 11. 0.6          | 12. 800       |
| 13. 11,206       | 14. 14:30     |
| 15. 8 lots       | 16. 228       |
| 17. 14           | 18. 78        |
| 19. 1 hr 30 mins | 20. 21        |

Maths Test 17

p. 19

- |                       |                |
|-----------------------|----------------|
| 1. 96                 | 2. 2           |
| 3. 1.6                | 4. 32          |
| 5. 2                  | 6. $206^\circ$ |
| 7. 4                  | 8. 5           |
| 9. 12,003             | 10. 600 mins   |
| 11. 45                | 12. 550        |
| 13. 91 mm             | 14. 0.73       |
| 15. 750g              | 16. 56         |
| 17. €3.70             | 18. 3.50       |
| 19. $64 \text{ cm}^2$ | 20. 14         |

Maths Test 18

p. 20

- |                   |                     |
|-------------------|---------------------|
| 1. 28             | 2. 3                |
| 3. 22 lots        | 4. 9                |
| 5. centimetres    | 6. 470              |
| 7. 250 g          | 8. 500              |
| 9. 52             | 10. 192,194,196,198 |
| 11. 15,055        | 12. 45 mins         |
| 13. 3.8           | 14. 0.11            |
| 15. 94            | 16. 24              |
| 17. 6,700 g       | 18. 1,125           |
| 19. 1 right angle | 20. $\frac{25}{35}$ |

Maths Test 19

p. 21

- |              |                      |
|--------------|----------------------|
| 1. 38        | 2. 2                 |
| 3. 0.5       | 4. $45^\circ$        |
| 5. 60 mins   | 6. $81 \text{ cm}^2$ |
| 7. 18        | 8. 5.43              |
| 9. 64 mm     | 10. 15               |
| 11. 14,053   | 12. 12:00            |
| 13. even     | 14. 7                |
| 15. 1,400 ml | 16. 73               |
| 17. 132      | 18. $\frac{20}{7}$   |
| 19. 31       | 20. 0.9 m            |

Maths Test 20

p. 22

- |                   |               |
|-------------------|---------------|
| 1. 26             | 2. 64         |
| 3. 1, 2, 4, 8     | 4. 8 vertices |
| 5. 645            | 6. 38         |
| 7. 4              | 8. 50 mins    |
| 9. 14,630         | 10. 13.2      |
| 11. 0             | 12. 270       |
| 13. 2,560         | 14. 1.54      |
| 15. 42            | 16. 90        |
| 17. 16            | 18. 28        |
| 19. $\frac{4}{5}$ | 20. 12        |

Maths Test 21

p. 23

- |              |                         |
|--------------|-------------------------|
| 1. 40        | 2. 0                    |
| 3. 3         | 4. 3.2                  |
| 5. 9, 18, 27 | 6. 39 days              |
| 7. 19.45     | 8. 6                    |
| 9. 560       | 10. 150 mm              |
| 11. 200      | 12. 30 mins             |
| 13. 2,011    | 14. 44                  |
| 15. 1,500 ml | 16. 400 cm <sup>2</sup> |
| 17. 25       | 18. 8 cm                |
| 19. 104 cm   | 20. 4 hrs 35 mins       |

Maths Test 22

p. 24

- |             |                     |
|-------------|---------------------|
| 1. 110      | 2. 91               |
| 3. 100      | 4. 0                |
| 5. 31 days  | 6. 25 mins          |
| 7. 299      | 8. 5.9              |
| 9. 12,101   | 10. 105°            |
| 11. 300     | 12. 460             |
| 13. 6,400 g | 14. 8.9             |
| 15. 0.09    | 16. $\frac{12}{28}$ |
| 17. 35      | 18. 27              |
| 19. 21      | 20. 78              |

Maths Test 23

p. 25

- |                   |             |
|-------------------|-------------|
| 1. 29             | 2. 7 hours  |
| 3. 96             | 4. 5        |
| 5. 12             | 6. 28       |
| 7. 6              | 8. 70       |
| 9. 1,060 cm       | 10. 25 mins |
| 11. 130           | 12. 7       |
| 13. 30°           | 14. 14,074  |
| 15. 0.31          | 16. 24      |
| 17. $\frac{4}{6}$ | 18. 16      |
| 19. 750 g         | 20. 44 cm   |

Maths Test 24

p. 26

- |            |              |
|------------|--------------|
| 1. 42      | 2. 64        |
| 3. 29 days | 4. 6         |
| 5. 20      | 6. 130°      |
| 7. 40 mins | 8. 302       |
| 9. 16,064  | 10. 15.8     |
| 11. 21     | 12. 6,100 ml |
| 13. 4,010  | 14. 00:00    |
| 15. 32     | 16. 125      |
| 17. 300    | 18. 92 days  |
| 19. 6      | 20. €5.68    |

Maths Test 25

p. 27

- |                |                   |
|----------------|-------------------|
| 1. 18          | 2. 70             |
| 3. 110         | 4. 8,000          |
| 5. 2           | 6. 5.4            |
| 7. False       | 8. Even           |
| 9. 0.6         | 10. €6.08         |
| 11. 8          | 12. 520           |
| 13. 3.41–3.49  | 14. False         |
| 15. 360°       | 16. 96            |
| 17. 40 rubbers | 18. $\frac{6}{9}$ |
| 19. 440        | 20. 33            |

Maths Test 26

p. 28

- |                |                |
|----------------|----------------|
| 1. 3,643       | 2. False       |
| 3. 15          | 4. 90.6        |
| 5. 6           | 6. 90          |
| 7. True        | 8. 12          |
| 9. 11,020 ml   | 10. 32         |
| 11. Odd        | 12. 95 cm      |
| 13. 6 vertices | 14. 21         |
| 15. 26.1       | 16. 33 sixths  |
| 17. 43 coins   | 18. 36 bottles |
| 19. 38         | 20. 0.6        |

Maths Test 27

p. 29

- |           |                    |
|-----------|--------------------|
| 1. 32     | 2. 6               |
| 3. 5      | 4. 306             |
| 5. 4,012  | 6. 86°             |
| 7. 1,600  | 8. 6 metres        |
| 9. Cone   | 10. 9              |
| 11. True  | 12. 24 students    |
| 13. 126   | 14. 8              |
| 15. 14:15 | 16. 9 pencil cases |
| 17. 48    | 18. 112            |
| 19. 0.04  | 20. 126            |

Maths Test 28

p. 30

- |              |              |
|--------------|--------------|
| 1. 10,000    | 2. 10.75     |
| 3. 200       | 4. 54        |
| 5. 20.9      | 6. 84        |
| 7. 1,320     | 8. 10:45     |
| 9. 2         | 10. 225°     |
| 11. False    | 12. 2 stamps |
| 13. 27       | 14. €8.01    |
| 15. Circle   | 16. 100      |
| 17. 115 mins | 18. 59       |
| 19. 20       | 20. 11       |

Maths Test 29

p. 31

- |               |                |
|---------------|----------------|
| 1. 9,007      | 2. 32          |
| 3. 11.8       | 4. 6           |
| 5. 65         | 6. True        |
| 7. 0.91–0.99  | 8. 17:20       |
| 9. 4.1        | 10. 11         |
| 11. 0.12      | 12. 1,300      |
| 13. €20.02    | 14. 6          |
| 15. 55°       | 16. €45        |
| 17. 7 numbers | 18. 8 red pens |
| 19. 80        | 20. 32         |

Maths Test 30

p. 32

- |                     |                  |
|---------------------|------------------|
| 1. 120              | 2. 0.04          |
| 3. 80               | 4. 8,011         |
| 5. 63               | 6. 10            |
| 7. False            | 8. $\frac{1}{2}$ |
| 9. $2\frac{2}{100}$ | 10. 730          |
| 11. 5               | 12. 20           |
| 13. 4:30 am         | 14. €4.54        |
| 15. 13              | 16. 0.3          |
| 17. 28 eights       | 18. 91           |
| 19. $\frac{4}{9}$   | 20. 335 cars     |