

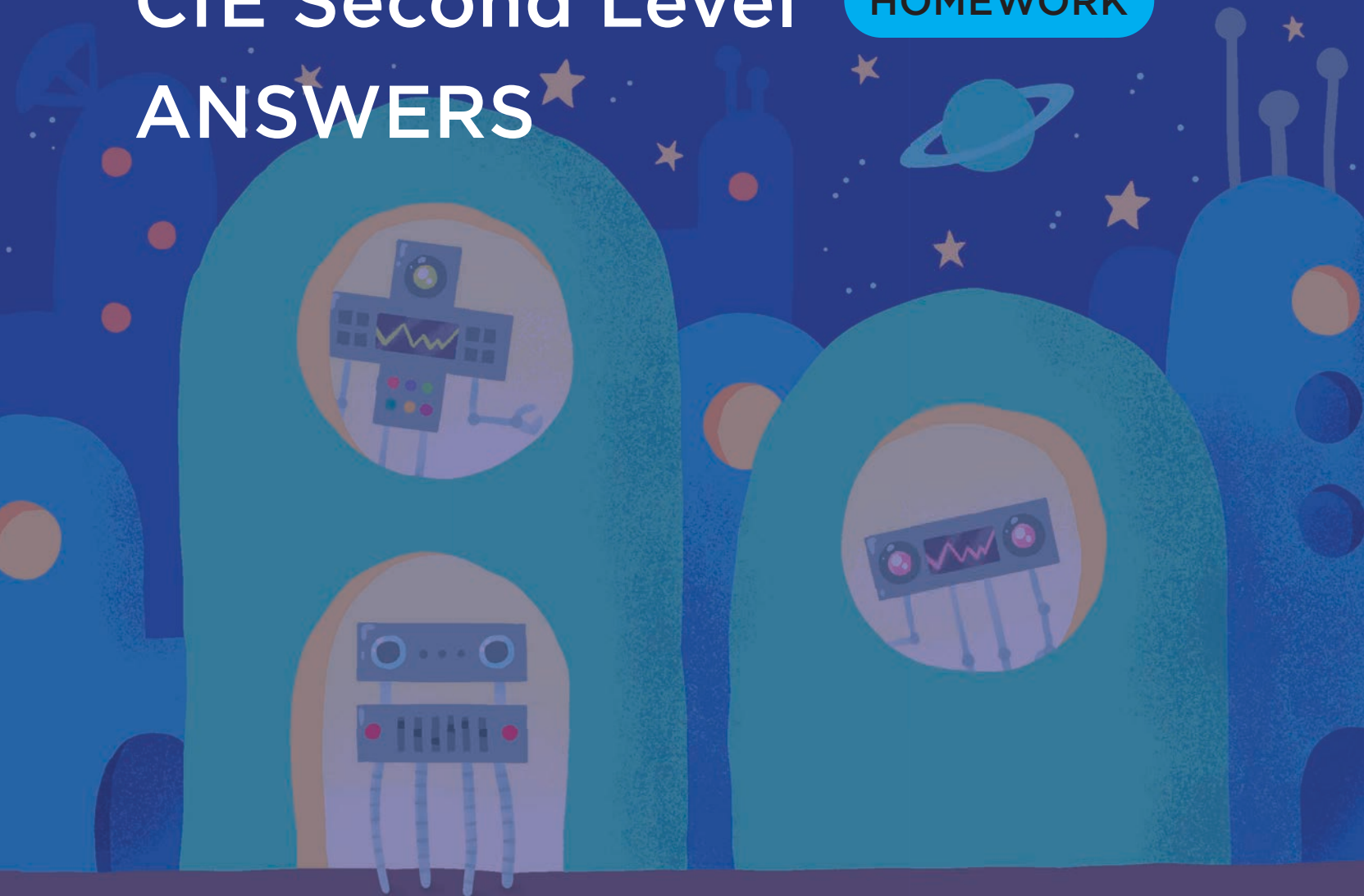
ZETA PRIMARY

MATHS & NUMERACY

CfE Second Level

HOMework

ANSWERS



Contents

CfE Second Level Homework 2A

CfE Second Level Homework 2B

CfE Second Level Homework 2C

Book 2A

Homework 1

A

1. 6235
2. Seven thousand, four hundred and sixty-nine
3. Five thousands, three hundreds, seven tens and eight ones
4. 5642, 5624, 5426, 5246

B

1. 5892
2. Eight thousand, four hundred and twenty-seven
3. Seven thousands, five hundreds and six ones
4. 6248, 6428, 6482, 6824

C

1. 9143
2. Three thousand, nine hundred and sixty-four
3. Eight thousands, two hundreds and five ones
4. 9753, 7953, 7539, 7359

D

1. 4617
2. Nine thousand and twenty-six
3. Four thousands, seven hundreds, four tens and eight ones
4. 2164, 2416, 2461, 2614

Challenge: 86321

Homework 2

A

- | | | | |
|---------|---------|-----------|-----------|
| 1. 60 | 2. 40 | 3. 300 | 4. 600 |
| 5. 2000 | 6. 8000 | 7. 20 000 | 8. 20 000 |

B

- | | | | |
|---------|---------|-----------|-----------|
| 1. 90 | 2. 50 | 3. 200 | 4. 800 |
| 5. 3000 | 6. 7000 | 7. 10 000 | 8. 50 000 |

C

- | | | | |
|---------|---------|-----------|-----------|
| 1. 80 | 2. 20 | 3. 900 | 4. 600 |
| 5. 6000 | 6. 8000 | 7. 30 000 | 8. 60 000 |

D

- | | | | |
|-----------|-----------|-----------|-----------|
| 1. 30 | 2. 110 | 3. 600 | 4. 800 |
| 5. 10 000 | 6. 11 000 | 7. 90 000 | 8. 10 000 |

Challenge: 36

Homework 3

A

- | | |
|----------------------|----------------------|
| 1. $20 + 30 = 50$ | 2. $80 - 30 = 50$ |
| 3. $60 - 20 = 40$ | 4. $200 + 300 = 500$ |
| 5. $500 - 400 = 100$ | 6. $900 - 200 = 700$ |

B

- | | |
|----------------------|----------------------|
| 1. $40 + 30 = 70$ | 2. $90 - 20 = 70$ |
| 3. $10 + 30 = 40$ | 4. $200 + 700 = 900$ |
| 5. $800 - 400 = 400$ | 6. $200 + 400 = 600$ |

C

- | | |
|-----------------------|----------------------|
| 1. $60 + 20 = 80$ | 2. $60 - 30 = 30$ |
| 3. $70 - 20 = 50$ | 4. $400 + 200 = 600$ |
| 5. $1000 - 400 = 600$ | 6. $100 + 500 = 600$ |

D

- | | |
|----------------------|-----------------------|
| 1. $20 + 50 = 70$ | 2. $100 - 50 = 50$ |
| 3. $70 - 30 = 40$ | 4. $500 + 500 = 1000$ |
| 5. $300 - 100 = 200$ | 6. $100 + 300 = 400$ |

Challenge: 38

Homework 4

A

1. 91 2. 53 3. 904 4. 318

B

1. 95 2. 55 3. 932 4. 522

C

1. 143 2. 35 3. 785 4. 416

D

1. 81 2. 45 3. 893 4. 247

Challenge: 18

Homework 5

A

1. Seven thousand, five hundred and eighty-one
2. 1940, 1490, 1409, 1094
3. 40 000 4. 580 5. 199

B

1. Six thousand, four hundred and twenty-three
2. 5097, 5670, 5709, 5960
3. 30 000 4. 733 5. 477

C

1. Nine thousand and sixteen
2. 8631, 8361, 3816, 3681
3. 40 000 4. 366 5. 44

D

1. Seven thousand and three
2. 6293, 6923, 6932, 9623
3. 20 000 4. 1099 5. 109

Challenge: $6 \times 5 = 30$

Homework 6

A

1. 4298 2. 10 827 3. 4767

B

1. 10 194 2. 5405 3. 8571

C

1. 8690 2. 3243 3. 10 863

D

1. 10 915 2. 10 195 3. 8521

Challenge: 182

Homework 7

A

1. 681 2. 7440 3. 4881

B

1. 4238 2. 5325 3. 2832

C

1. 2849 2. 4174 3. 4076

D

1. 2778 2. 5479 3. 3255

Challenge: $26 - 18 = 8$

Homework 8

A

1. 348 2. 576 3. 4998 4. 5238

B

1. 322 2. 333 3. 6888 4. 2634

C

1. 378 2. 371 3. 2943 4. 7264

D

1. 464 2. 774 3. 5425 4. 3276

Challenge: 180

Homework 9

A

1. $480 + 18 = 498$
2. $4000 + 160 + 48 = 4208$
3. $2100 + 350 + 14 = 2464$

B

1. $350 + 42 = 392$
2. $2700 + 810 + 63 = 3573$
3. $4800 + 60 + 54 = 4914$

C

1. $320 + 24 = 344$
2. $3600 + 720 + 45 = 4365$
3. $500 + 450 + 30 = 980$

D

1. $630 + 45 = 675$
2. $4200 + 60 + 24 = 4284$
3. $1400 + 490 + 35 = 1925$

Challenge: 30

Homework 10

A

1. $400 + 200 = 600$ 2. 89
3. 29 4. 50 000

B

1. $200 + 600 = 800$ 2. 48
3. 1554 4. 70 000

C

1. $700 + 200 = 900$
2. 182
3. 524
4. 50 000

D

1. $100 + 600 = 700$
2. 184
3. 1314
4. 80 000

Challenge: 13456**Homework 11****A**

1. 210
2. 132
3. 123
4. 92
5. 109
6. 86

B

1. 163
2. 129
3. 119
4. 104
5. 115
6. 108

C

1. 147
2. 114
3. 103
4. 88
5. 87
6. 73

D

1. 128
2. 119
3. 112
4. 111
5. 144
6. 131

Challenge: 9 whole packs and 1 left over**Homework 12****A**

1. 360
2. 2090
3. 900
4. 4600
5. 7000
6. 19 000

B

1. 480
2. 5030
3. 2700
4. 8100
5. 12 000
6. 35 000

C

1. 720
2. 6180
3. 4300
4. 9600
5. 14 000
6. 73 000

D

1. 850
2. 1300
3. 6200
4. 1300
5. 26 000
6. 84 000

Challenge: 1270**Homework 13****A**

1. 74
2. 235
3. 69
4. 324
5. 5
6. 81

B

1. 96
2. 453
3. 84
4. 276
5. 17
6. 132

C

1. 128
2. 715
3. 93
4. 647
5. 24
6. 75

D

1. 536
2. 91
3. 685
4. 34
5. 18
6. 107

Challenge: 75**Homework 14****A**

1. 8, 16, 24, 32, 40
2. 20, 40, 60, 80, 100
3. 1, 2, 3, 4, 6, 12
4. 1, 3, 7, 21

B

1. 6, 12, 18, 24, 30
2. 40, 80, 120, 160, 200
3. 1, 2, 3, 6, 9, 18
4. 1, 2, 5, 10, 25, 50

C

1. 7, 14, 21, 28, 35
2. 31, 62, 93, 124, 155
3. 1, 2, 4, 11, 22, 44
4. 1, 5, 11, 55

D

1. 9, 18, 27, 36, 45
2. 25, 50, 75, 100, 125
3. 1, 2, 4, 13, 26, 52
4. 1, 2, 17, 34

Challenge: 30**Homework 15****A**

1. 124
2. 95
3. 75 000
4. 39
5. 1, 2, 4, 8, 16
6. 14

B

1. 89
2. 106
3. 34 000
4. 57
5. 1, 3, 9, 27, 81
6. 27

C

1. 46
2. 67
3. 71 000
4. 58
5. 1, 3, 5, 9, 15, 45
6. 18

D

1. 51
2. 84
3. 59 000
4. 47
5. 1, 2, 4, 7, 14, 28
6. 36

Challenge: 6 and 9

Homework 16

A

1. Multiple Answers
2. Multiple Answers
3. $\frac{7}{15}$
4. (a) $\frac{7}{10}$ (b) $\frac{7}{8}$

B

1. Multiple Answers
2. Multiple Answers
3. $\frac{8}{15}$
4. (a) $\frac{2}{3}$ (b) $\frac{1}{7}$

C

1. Multiple Answers
2. Multiple Answers
3. $\frac{7}{12}$
4. (a) $\frac{9}{13}$ (b) $\frac{5}{9}$

D

1. Multiple Answers
2. Multiple Answers
3. $\frac{10}{12}$ or $\frac{5}{6}$
4. (a) $\frac{3}{5}$ (b) $\frac{6}{7}$

Challenge: $\frac{1}{2} = \frac{3}{6}$ and $\frac{1}{3} = \frac{2}{6}$ so, $\frac{1}{2} > \frac{1}{3}$

Homework 17

A

1. 7
2. 7
3. 6
4. 3
5. 4
6. 4
7. <

B

1. 7
2. 5
3. 4
4. 11
5. 8
6. 3
7. <

C

1. 10
2. 5
3. 6
4. 7
5. 4
6. 8
7. >

D

1. 6
2. 6
3. 5
4. 3
5. 2
6. 8
7. <

Challenge: 9

Homework 18

A

1. 30.3
2. 50.2
- 3.
- (a) Seven ones and three tenths

(b) Five ones and four tenths

4. 5.3, 5.1, 4.9, 4.8

B

1. 40.6
2. 60.9
- 3.
- (a) Eight ones and one tenth
- (b) Three ones and nine tenths
4. 7.9, 7.4, 6.5, 6.2

C

1. 70.1
2. 90.2
- 3.
- (a) Six ones and eight tenths
- (b) Four ones and five tenths
4. 3.1, 3.3, 3.7, 3.9

D

1. 80.5
2. 1.7
- 3.
- (a) Nine ones and one tenth
- (b) Two ones and six tenths
4. 0.5, 0.8, 1.2, 1.6

Challenge: 52

Homework 19

A

1. 1.5
2. 7.1
3. 6.4
4. 1.3

B

1. 1.1
2. 8.7
3. 5.3
4. 2.6

C

1. 1.7
2. 11.2
3. 2.7
4. 1.4

D

1. 1.3
2. 16.4
3. 5.4
4. 1.8

Challenge: 18 sweets

Homework 20

A

1. 50 000
2. 302 000
3. 21
4. Multiple Answers
5. 1, 2, 3, 4, 6, 12

B

1. 64 000
2. 415 000
3. 42
4. Multiple Answers
5. 1, 2, 3, 6, 9, 18

C

1. 27 300
3. 156
5. 1, 2, 4, 5, 10, 20

D

1. 67 200
3. 635
5. 1, 3, 13, 39
2. 902 000
4. Multiple Answers

Challenge: 32×5

Homework 21

A

- | | | |
|-------|-------|-------|
| 1. 12 | 2. 17 | 3. 22 |
| 4. 24 | 5. 3 | 6. 18 |

B

- | | | |
|-------|-------|-------|
| 1. 16 | 2. 30 | 3. 22 |
| 4. 36 | 5. 4 | 6. 26 |

C

- | | | |
|-------|-------|-------|
| 1. 7 | 2. 33 | 3. 20 |
| 4. 34 | 5. 3 | 6. 34 |

D

- | | | |
|-------|-------|-------|
| 1. 13 | 2. 36 | 3. 23 |
| 4. 33 | 5. 3 | 6. 48 |

Challenge: $3 \times 5 + 4 = 19$

Homework 22

A

- | | |
|-----------|-----------|
| 1. £15.35 | |
| 2. | |
| (a) 7:10 | (b) 10:20 |

B

- | | |
|----------|-----------|
| 1. £6.77 | |
| 2. | |
| (a) 5:10 | (b) 12:20 |

C

- | | |
|----------|----------|
| 1. £8.54 | |
| 2. | |
| (a) 8:50 | (b) 9:10 |

D

- | | |
|----------|----------|
| 1. £1.28 | |
| 2. | |
| (a) 3:20 | (b) 1:10 |

Challenge: 72p

Homework 23

A

- | | |
|------------------------|-------------|
| 1. | |
| (a) 3:05 | (b) 10:35 |
| 2. | |
| (a) 20:15 | (b) 02:40 |
| 3. | |
| (a) 6:35 am | (b) 5:55 pm |
| 4. 4 hours and 20 mins | |

B

- | | |
|------------------------|-------------|
| 1. | |
| (a) 6:15 | (b) 4:40 |
| 2. | |
| (a) 15:45 | (b) 07:15 |
| 3. | |
| (a) 9:30 pm | (b) 9:10 am |
| 4. 4 hours and 30 mins | |

C

- | | |
|------------------------|-------------|
| 1. | |
| (a) 7:25 | (b) 3:55 |
| 2. | |
| (a) 06:20 | (b) 23:20 |
| 3. | |
| (a) 9:45 am | (b) 8:15 pm |
| 4. 4 hours and 45 mins | |

D

- | | |
|------------------------|-------------|
| 1. | |
| (a) 8:10 | (b) 5:50 |
| 2. | |
| (a) 19:50 | (b) 00:05 |
| 3. | |
| (a) 3:30 am | (b) 4:40 pm |
| 4. 4 hours and 35 mins | |

Challenge: Discuss with your teacher

Homework 24

A

- | | | | |
|-------|---------|-------|----------|
| 1. 30 | 2. 45 | 3. 70 | 4. 90 |
| 5. 5 | 6. 1200 | 7. 25 | 8. Acute |

B

- | | | | |
|--------|---------|--------|-----------|
| 1. 350 | 2. 550 | 3. 720 | 4. 140 |
| 5. 9 | 6. 8700 | 7. 9.2 | 8. Obtuse |

C

- | | | | |
|--------|---------|--------|-----------|
| 1. 330 | 2. 360 | 3. 420 | 4. 630 |
| 5. 12 | 6. 2500 | 7. 37 | 8. Reflex |

D

- | | | | |
|--------|---------|--------|-----------|
| 1. 625 | 2. 675 | 3. 825 | 4. 530 |
| 5. 63 | 6. 9100 | 7. 56 | 8. Reflex |

Homework 25

A

- 55
- 21.5, 15.5, 15.2, 12.5
- 37
- 238

5.

(a) $\frac{10}{21}$

B

- 17
- 17.9, 17.4, 16.9, 16.4
- 56
- 498

5.

(a) $\frac{3}{7}$

(b) $\frac{4}{5}$

(b) $\frac{3}{4}$

C

- 29
- 17.8, 17.5, 17.1, 15.9
- 96
- 243

5.

(a) $\frac{9}{10}$

(b) $\frac{7}{8}$

D

- 6
- 68.5, 65.8, 65.5, 58.6
- 158
- 408

5.

(a) $\frac{2}{7}$

(b) $\frac{10}{11}$

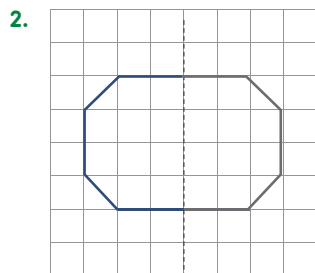
Challenge: $\frac{9}{20}$

Homework 26

A

- (a) West

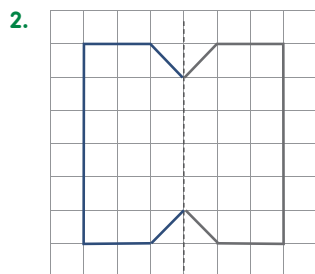
(b) West



B

- (a) West

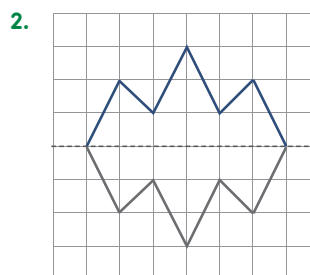
(b) West



C

- (a) East

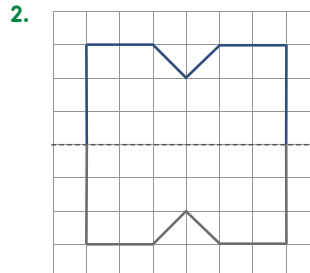
(b) West



D

- (a) South

(b) South



Challenge: East

Homework 27

A

- A = 81 cm², P = 36 cm
- A = 21 cm², P = 20 cm
- A = 24 cm², P = 22 cm

B

- A = 400 m², P = 80 m
- A = 24 cm², P = 20 cm
- A = 40 m², P = 28 m

C

- A = 900 m², P = 120 m
- A = 56 cm², P = 30 cm
- A = 15 cm², P = 16 cm

D

- A = 2500 m², P = 200 m
- A = 90 m², P = 38 m
- A = 96 cm², P = 40 cm

Challenge: 11 cm

Homework 28

A

A (14,6) B (4,14) C (13,17) D (6,2) E (18,11)

B

F (1,6) G (8,5) H (11,12) I (6,10) J (18,3)

C

K (0,19) L (9,16) M (19,20) N (2,12) P (2,2)

D

Q (16,13) R (20,5) T (10,8) V (12,0) W (7,18)

Challenge: (5, 8)**Homework 29****A**

1. 95, 102, 109 2. 140, 131, 122
3. $81 - 50 = 31$ 4. $7 \times 6 = 42$

B

1. 474, 486, 498 2. 911, 891, 871
3. $90 + 30 = 120$ 4. $40 = 8 \times 5$

C

1. 817, 917, 1017 2. 587, 578, 569
3. $27 + 37 = 64$ 4. $45 = 5 \times 9$

D

1. 242, 262, 282 2. 61, 49, 37
3. $200 - 130 = 70$ 4. $9 \times 8 = 72$

Challenge: 15**Book 2B****Homework 1****A**

1. 942 406
2. One thousand, one hundred, four tens and one one
3. 14 817, 14 187, 14 178

B

1. 520 507
2. Two thousands, two hundreds, one ten and two ones
3. 24 503, 24 305, 23 405

C

1. 326 571
2. One thousand, four hundreds and two tens
3. 104 478, 104 487, 104 807

D

1. 253 116
2. One thousand, one hundred, eight tens and three ones
3. 725 165, 725 516, 725 615

Challenge: 8 200 000 000**Homework 2****A**

1. 100 000 2. 400 000 3. £6 4. £33
5. $200 + 400 = £600$ 6. $700 - 200 = £500$

B

1. 300 000 2. 500 000 3. £7 4. £13
5. $300 + 600 = £900$ 6. $900 - 200 = £700$

C

1. 200 000 2. 900 000 3. £9 4. £80
5. $600 + 300 = £900$ 6. $700 - 200 = £500$

D

1. 500 000 2. 500 000 3. £2 4. £86
5. $100 + 600 = £700$ 6. $900 - 100 = £800$

Challenge: $6 \times 9 = 54$, $110 - 46 = 64$ so $64 > 54$ **Homework 3****A**

1. 64 917 2. 22 305 3. 24 522

B

1. 77 631 2. 38 335 3. 32 414

C

1. 99 268 2. 37 785 3. 22 625

D

1. 42 434 2. 15 594 3. 14 428

Challenge: 506**Homework 4****A**

1. 120 2. 71 3. 101 4. 37
5. 34 6. 24 7. 125 784

B

1. 92 2. 92 3. 103 4. 34
5. 36 6. 48 7. 108 492

C

1. 91 2. 54 3. 105 4. 37
5. 35 6. 58 7. 97 313

D

1. 103 2. 81 3. 95 4. 49
5. 26 6. 5 7. 112 410

Challenge: $49 - 37$ **Homework 5****A**

1. $70\ 000 + 5000 + 300 + 0 + 8$
2. $100 + 200 = £300$

3. $\frac{5}{6}$ 4. $\frac{11}{12}$ 5. $\frac{2}{3}$ 6. $\frac{4}{5}$

B

1. $20\,000 + 4\,000 + 900 + 10 + 6$

2. $100 + 400 = \text{£}500$

3. $\frac{10}{11}$ 4. $\frac{3}{4}$ 5. $\frac{2}{3}$ 6. $\frac{3}{5}$

C

1. $30\,000 + 3\,000 + 700 + 60 + 5$

2. $300 + 200 = \text{£}500$

3. $\frac{5}{6}$ 4. $\frac{3}{7}$ 5. $\frac{7}{9}$ 6. $\frac{7}{10}$

D

1. $40\,000 + 1\,000 + 500 + 70 + 8$

2. $400 + 200 = \text{£}600$

3. $\frac{3}{4}$ 4. $\frac{2}{5}$ 5. $\frac{12}{13}$ 6. $\frac{2}{3}$

Challenge: $\frac{26}{32}$

Homework 6

A

1. 22 092 2. 41 896 3. 56 223

B

1. 59 384 2. 33 355 3. 48 312

C

1. 39 222 2. 34 614 3. 37 723

D

1. 83 502 2. 47 538 3. 36 064

Challenge: 72

Homework 7

A

1. 216 2. 406 3. 243 4. 360
5. 414 6. 511 7. 106 8. 94

B

1. 477 2. 496 3. 234 4. 588
5. 414 6. 280 7. 67 8. 87

C

1. 261 2. 486 3. 592 4. 448
5. 546 6. 114 7. 127 8. 69

D

1. 399 2. 516 3. 441 4. 744
5. 196 6. 204 7. 83 8. 91

Challenge: 9 full boxes and 3 pencils left over.

Homework 8

A

1. 42 563 2. 52 149 3. 68 539 r4 4. 58 142

B

1. 109 034 2. 96 459 3. 203 921 4. 89 127 r3

C

1. 57 428 r7 2. 170 953 3. 65 128 4. 116 478

D

1. 134 780 r5 2. 41 840 r2 3. 74 189 4. 84 197

Challenge: $96 \div 3 = 32$

Homework 9

A

1. 1040 2. 7200 3. 136 000

B

1. 1890 2. 9000 3. 145 000

C

1. 420 2. 15 500 3. 52 000

D

1. 820 2. 7500 3. 124 000

Challenge: £1.80

Homework 10

A

1. Multiple Answers

2.

- (a) $\frac{2}{3}$ (b) $\frac{4}{5}$

3. 15

4. 573 000 5. 291

B

1. Multiple Answers

2.

- (a) $\frac{5}{7}$ (b) $\frac{3}{5}$

3. 25

4. 251 000 5. 874

C

1. Multiple Answers

2.

- (a) $\frac{1}{2}$ (b) $\frac{3}{4}$

3. 32

4. 48 000 5. 532

D

1. Multiple Answers

2.

- (a) $\frac{9}{11}$ (b) $\frac{3}{4}$

3. 14

4. 640 000 5. 316

Challenge: $\frac{12}{18} = \frac{2}{3}$

Homework 11

A

1. 32 2. 13 3. 13

B

1. 16 2. 14 3. 16

C

1. 12 2. 17 3. 9

D

1. 32 2. 14 3. 13

Challenge: 9 small bags

Homework 12

A

1. 782 2. 350 3. 1386 4. 2226

B

1. 336 2. 775 3. 1344 4. 1479

C

1. 952 2. 1014 3. 1634 4. 3363

D

1. 1872 2. 4810 3. 5332 4. 6365

Challenge: 79

Homework 13

A

1. -14, -12, -11, -9, 4, 6, 13 2. -19, -15, -7, -2, 3, 8, 11
3. -20, -13, -6, -1, 9, 14, 18
4. < 5. > 6. > 7. <

B

1. -17, -12, -8, -3, 7, 10, 19 2. -18, -16, -9, -5, 4, 13, 17
3. -19, -14, -8, -4, 5, 12, 15
4. > 5. < 6. < 7. >

C

1. 16, 9, 6, -7, -10, -11, -18 2. 20, 13, 11, -3, -9, -17, -19
3. 15, 8, 5, -4, -6, -13, 17
4. > 5. < 6. > 7. >

D

1. 18, 12, 7, 0, -1, -9, -12 2. 19, 17, 10, 6, -5, -8, -12
3. 18, 15, 13, 9, -4, -7, -11
4. < 5. > 6. < 7. <

Challenge: -13°C

Homework 14

A

1. 14 2. 24 3. 20 4. 30
5. 15 6. 40

B

1. 14 2. 18 3. 40 4. 45
5. 25 6. 36

C

1. 32 2. 30 3. 16 4. 50
5. 21 6. 42

D

1. 45 2. 28 3. 30 4. 42
5. 6 6. 33

Challenge: -3°C

Homework 15

A

1. 125 436 2. $100 + 600 = \text{£}700$
3. 14, 12, 8, -5, -12, -16, -17 4. 21

B

1. 952 2. 1066
3.
(a) 600 000 (b) 900 000
4. $20\,000 + 9000 + 700 + 80 + 9$

C

1. 092 226 r1 2. $200 + 700 = \text{£}900$
3. -11, -9, -8, -6, 13, 15, 16 4. 35

D

1. 575 2. 816
3.
(a) 300 000 (b) 700 000
4. $50\,000 + 4000 + 800 + 60 + 3$

Challenge: $\frac{1}{4} = \frac{5}{20}$ and $\frac{2}{5} = \frac{8}{20}$ so $\frac{2}{5} > \frac{1}{4}$

Homework 16

A

1. 30.63 2. $3 + 0.6 + 0.05$ 3. $5 + 0.3 + 0.04$
4. 3.21, 3.12, 2.33 5. 7.84, 4.87, 4.78

B

1. 50.24 2. $2 + 0.1 + 0.06$ 3. $7 + 0.9 + 0.04$
4. 5.83, 5.38, 3.58 5. 6.52, 6.25, 5.26

C

1. 70.91 2. $4 + 0.3 + 0.05$ 3. $6 + 0 + 0.08$
4. 2.89, 2.9, 2.98 5. 6.45, 6.5, 6.54

D

1. 62.05 2. $1 + 0.7 + 0.06$ 3. $3 + 0.2 + 0.06$
4. 0.08, 0.18, 0.81 5. 9.3, 9.34, 9.43

Challenge: 1.92

Homework 17

A

1. 5.82 2. 4.26 3. 12.25 4. 1.23

B

1. 8.39 2. 4.08 3. 8.63 4. 3.27

C

1. 12.04 2. 7.13 3. 13.23 4. 2.66

D

1. 11.98 2. 5.16 3. 14.26 4. 1.48

Challenge: 4

Homework 18

A

1. 21.2 2. 38.28 3. 0.53
4. 1.08 5. 8.5 6. 6.4

B

1. 14.36 2. 55.44 3. 0.84
4. 0.67 5. 5.25 6. 6.5

C

1. 48.4 2. 15.63 3. 1.59
4. 1.07 5. 10.5 6. 13.5

D

1. 50.49 2. 61.15 3. 0.87
4. 2.57 5. 19.5 6. 8.5

Challenge: £2.25

Homework 19

A

1. 26 2. 3.37 3. 4160
4. 5525 5. 2.63 6. 0.08

B

1. 48 2. 2.75 3. 623
4. 1971 5. 3.45 6. 0.13

C

1. 74 2. 5.29 3. 637
4. 4715 5. 1.28 6. 0.07

D

1. 596 2. 30.37 3. 1247
4. 908 5. 7.15 6. 0.36

Challenge: £5.10

Homework 20

A

1. 0.69 2. 0.98 3. 12 4. 28
5.
(a) $\frac{5}{11}$ (b) $\frac{4}{5}$
6. 0.15, 0.5, 0.51

B

1. 0.96 2. 1.53 3. 20 4. 24
5.
(a) $\frac{3}{4}$ (b) $\frac{3}{5}$
6. 0.02, 0.12, 0.21

C

1. 1.42 2. 1.42 3. 14 4. 72
5.
(a) $\frac{5}{8}$ (b) $\frac{3}{4}$
6. 7.9, 7.98, 7.99

D

1. 0.99 2. 1.47 3. 28 4. 48
5.
(a) $\frac{2}{3}$ (b) $\frac{8}{9}$
6. 6.04, 6.4, 6.44

Challenge: 1500 cm²

Homework 21

A

1. $\frac{3}{10}$ 2. $\frac{9}{20}$ 3. 60% 4. 90%
5. 0.41 6. 0.79 7. 70% 8. 92%

B

1. $\frac{1}{4}$ 2. $\frac{3}{5}$ 3. 90% 4. 70%
5. 0.63 6. 0.05 7. 40% 8. 56%

C

1. $\frac{7}{10}$ 2. $\frac{11}{20}$ 3. 44% 4. 30%
5. 0.24 6. 0.67 7. 30% 8. 89%

D

1. $\frac{1}{20}$ 2. $\frac{19}{20}$ 3. 90% 4. 15%
5. 0.09 6. 0.52 7. 2% 8. 7%

Challenge: 45%, 0.42, $\frac{41}{100}$, $\frac{2}{5}$

Homework 22

A

1. $24 \div 2 = 12$ 2. $170 \div 10 = 17$
3. $120 \div 5 = 24$ 4. $64 \div 4 = 16$
5. $200 \div 4 \times 3 = 150$ 6. $140 \div 10 \div 2 = 7$

B

1. $68 \div 2 = 34$
2. $220 \div 10 = 22$
3. $36 \div 3 = 12$
4. $28 \div 4 = 7$
5. $400 \div 4 \times 3 = 300$
6. $6200 \div 100 = 62$

C

1. $38 \div 2 = 19$
2. $520 \div 10 = 52$
3. $550 \div 5 = 110$
4. $44 \div 4 = 11$
5. $300 \div 4 \times 3 = 225$
6. $260 \div 10 \div 2 = 13$

D

1. $200 \div 2 = 100$
2. $860 \div 10 = 86$
3. $120 \div 3 = 40$
4. $440 \div 4 = 110$
5. $160 \div 4 \times 3 = 120$
6. $3800 \div 100 = 38$

Homework 23**A**

1. (a) 3:35 (b) 8:20
2. (a) 330 mins (b) 135 mins
3. (a) 150 secs (b) 75 secs
4. 4 hours and 40 mins

B

1. (a) 7:45 (b) 6:05
2. (a) 75 mins (b) 165 mins
3. (a) 45 secs (b) 210 secs
4. 5 hours and 20 mins

C

1. (a) 1:40 (b) 7:10
2. (a) 90 mins (b) 375 mins
3. (a) 105 secs (b) 450 secs
4. 3 hours and 50 mins

D

1. (a) 8:55 (b) 12:15
2. (a) 75 mins (b) 270 mins
3. (a) 570 secs (b) 195 secs
4. 7 hours and 5 mins

Homework 24**A**

1. 8500 metres
2. 4 kilometres
3. 4600 grams
4. 2.5 kilograms
5. 13 600 millilitres

6. 5.7 litres
7. $\frac{1}{2} \times 6 \times 5 = 15 \text{ cm}^2$

B

1. 2300 metres
2. 3.4 kilometres
3. 5600 grams
4. 7.4 kilograms
5. 15 900 millilitres
6. 9.8 litres
7. $\frac{1}{2} \times 10 \times 6 = 30 \text{ m}^2$

C

1. 4700 metres
2. 2.7 kilometres
3. 3200 grams
4. 34 kilograms
5. 900 millilitres
6. 9.65 litres
7. $\frac{1}{2} \times 10 \times 8 = 40 \text{ m}^2$

D

1. 2010 metres
2. 5.4 kilometres
3. 700 grams
4. 0.125 kilograms
5. 5010 millilitres
6. 0.63 litres
7. $\frac{1}{2} \times 12 \times 8 = 48 \text{ cm}^2$

Homework 25**A**

1. 15
2. 25
3. 300
4. -19, -8, -5, -2, 10, 16, 17
5. 50

B

1. 18
2. 28
3. 40
4. -19, -14, -7, -5, 3, 9, 12
5. 70

C

1. 24
2. 45
3. 95
4. 18, 14, 7, 5, -2, -4, -16
5. 42

D

1. 56
2. 16
3. 1500
4. 15, 13, 8, -3, -6, -17, -20
5. 130

Challenge: 18 pages left to read

Homework 26**A**

1. 30
2. 70
3. north-east
4. north-west
5. north-west

B

1. 20
2. 50
3. south-east
4. south
5. east

C

1. 75
2. 45
3. south
4. east
5. north-east

D

1. 45
2. 93
3. south-east
4. north-west
5. north-east

Challenge: Isosceles triangle

Challenge: Many answers including 4017, 4026, 4035, 4503, 4800

Homework 2

A

1. 76 041 2. 128 142 3. 215 128

B

1. 68 417 2. 119 334 3. 315 479

C

1. 69 621 2. 137 712 3. 314 849

D

1. 62 789 2. 118 219 3. 426 459

Challenge: $6531 + 599 = 7030$, $8451 - 1512 = 6939$
false as $7030 > 6939$

Homework 3

A

1. 28 2. 12 3. 10° 4. 65°
5. (a) 80% (b) 45% 6. $\frac{4}{5}$

B

1. 35 2. 8 3. 25° 4. 40°
5. (a) 30% (b) 15% 6. $\frac{3}{4}$

C

1. 30 2. 72 3. 58° 4. 14°
5. (a) 90% (b) 16% 6. $\frac{1}{3}$

D

1. 52 2. 22 3. 42° 4. 48°
5. (a) 60% (b) 44% 6. $\frac{3}{4}$

Challenge: $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, \frac{7}{8}$

Homework 4

A

1. 60 990 r6 2. 56 360 r6
3. 143 004 r0 4. 38 404 r3

B

1. 101 993 r3 2. 88 746 r2
3. 55 515 r3 4. 99 178 r6

C

1. 105 120 r2 2. 103 314 r5
3. 101 733 r7 4. 108 049 r1

D

1. 116 247 r0 2. 84 323 r6
3. 120 303 r4 4. 32 969 r3

Challenge: $95 - 31 = 64$

Homework 5

A

1. 1380 2. 13 500 3. 212 000

B

1. 1520 2. 14 500 3. 186 000

C

1. 1480 2. 6600 3. 50 000

D

1. 1450 2. 12 300 3. 90 000

Challenge: £6

Homework 6

A

1. 245 000 2. 369 3. 8.04
4. 1.55 5. Multiple Answers
6. 14

B

1. 43 800 2. 7520 3. 11.45
4. 5.77 5. Multiple Answers
6. 36

C

1. 14 000 2. 275 3. 8.06
4. 3.46 5. Multiple Answers
6. 63

D

1. 915 000 2. 31 3. 12.04
4. 4.36 5. Multiple Answers
6. 56

Challenge: 8

Homework 7

A

1. 24 2. 12 3. 9

B

1. 17 2. 9 3. 14

C

1. 11 2. 32 3. 9

D

1. 9 2. 9 3. 32

Challenge: 4159

Homework 8

A

1. 13 230

2. 14 694

B

1. 19 388

2. 16 642

C

1. 11 310

2. 9162

D

1. 32 508

2. 17 135

Challenge: $125 \div 5 = 125$

Homework 9

A

1. 116 247 r0

2. 400

3. 27°

4. 40

5. 0.19

6. $\frac{5}{11}$

7. $\frac{8}{9}$

B

1. 115 027 r4

2. 0.5

3. 73°

4. 24

5. 0.25

6. $\frac{1}{2}$

7. $\frac{5}{8}$

C

1. 121 888 r2

2. 730

3. 65°

4. 52

5. 0.9

6. $\frac{1}{3}$

7. $\frac{3}{5}$

D

1. 94 625 r2

2. 3700

3. 29°

4. 330

5. 0.22

6. $\frac{5}{8}$

7. $\frac{1}{3}$

Challenge: 61p

Homework 10

A

1. 20, 40, 60, 80

2. 3: 3, 6, 9, 12, 15, 18

5: 5, 10, 15, 20, 25, 30

lcm = 15

3. 1, 2, 4, 5, 10, 20

4. 18.5

5. 1.07

B

1. 17, 34, 51, 68

2. 2: 2, 4, 6, 8, 10, 12

8: 8, 16, 24, 32, 40, 48

lcm = 8

3. 1, 2, 4, 7, 14, 28

4. 2.25

5. 4.6

C

1. 16, 32, 48, 64

2. 4: 4, 8, 12, 16, 20, 24

7: 7, 14, 21, 28, 35, 42

lcm = 28

3. 1, 2, 3, 6, 9, 18

4. 0.56

5. 1.5

D

1. 23, 46, 69, 92

2. 6: 6, 12, 18, 24, 30, 36 9: 9, 18, 27, 36, 45, 54

lcm = 18

3. 1, 2, 5, 10, 25, 50

4. 1.75

5. 11.2

Challenge: 32, 44, 45, 50, 52

Homework 11

A

1. $\frac{12}{24}, \frac{15}{24}, \frac{16}{24}$

2. $\frac{12}{18}, \frac{11}{18}, \frac{10}{18}$

3. 40

B

1. $\frac{26}{50}, \frac{30}{50}, \frac{35}{50}$

2. $\frac{10}{12}, \frac{9}{12}, \frac{8}{12}$

3. 28

C

1. $\frac{6}{12}, \frac{7}{12}, \frac{9}{12}$

2. $\frac{21}{24}, \frac{20}{24}, \frac{19}{24}$

3. 32

D

1. $\frac{12}{18}, \frac{14}{18}, \frac{15}{18}$

2. $\frac{33}{42}, \frac{32}{42}, \frac{30}{42}$

3. 450

Challenge: $\frac{1}{5}$, 0.205, $\frac{22}{100}$, 25%

Homework 12

A

1. 476

2. 828

3. 1, 2, 4, 7, 14, 28

4. 40

B

1. 574

2. 945

3. 1, 2, 3, 4, 6, 12

4. 36

C

1. 574

2. 810

3. 1, 3, 5, 9, 15, 45

4. 24

D

1. 944

2. 756

3. 1, 3, 5, 15, 25, 75

4. 63

Challenge: 48 has 10 factors and 50 has 6. Answer is 48

Homework 13

A

1. 6.81

2. 8.451

3. 3.27

4. 2.688

B

1. 9.08

2. 4.689

3. 3.82

4. 3.285

C

1. 8.37

2. 9.002

3. 2.69

4. 1.059

D

1. 11.32

2. 15.86

3. 1.29

4. 0.275

Challenge: $\frac{83}{100} > \frac{4}{5}$ as $\frac{4}{5} = \frac{80}{100}$

Homework 14

A

1. 49.3 2. 4.494 3. 2.058 4. 4.32
5. 125.5

B

1. 27.92 2. 18.856 3. 1.998 4. 2.016
5. 27.5

C

1. 35.21 2. 28.485 3. 2.932 4. 1.771
5. 68.25

D

1. 30.16 2. 32.088 3. 2.552 4. 1.555
5. 32.25

Challenge: $43 \times 5 = 215$

Homework 15

A

1. (a) 70% (b) 65% 2. 1 hour 50 mins
3. 5:55 4. 8:25

B

1. (a) 40% (b) 6% 2. 4 hours 38 mins
3. 2:35 4. 9:10

C

1. (a) 30% (b) 55% 2. 5 hours 44 mins
3. 3:05 4. 11:45

D

1. (a) 36% (b) 16% 2. 6 hour 24 mins
3. 6:50 4. 8:05

Challenge: $7 \times 24 \times 60 = 10\,080$ minutes

Homework 16

A

1. 10.67 2. 0.694 3. 520.9
4. 0.0872 5. 11 427 6. 0.214

B

1. 23.08 2. 0.756 3. 481.2
4. 0.0934 5. 145 201 6. 0.037

C

1. 34.19 2. 0.872 3. 1691.7
4. 0.00678 5. 14 065 6. 0.009

D

1. 52.14 2. 0.961 3. 7806.9
4. 0.0318 5. 18 372 6. 0.007

Challenge: $120 - 12 \times 4 = 72$

Homework 17

A

1. 60% 2. 40% 3. 60% 4. 84%

B

1. 30% 2. 90% 3. 55% 4. 80%

C

1. 30% 2. 23% 3. 60% 4. 44%

D

1. 80% 2. 30% 3. 70% 4. 25%

Challenge: $\frac{48}{60} = \frac{16}{20}$ so $\frac{48}{60} < \frac{17}{20}$

Homework 18

A

1. 100 2. 17 3. 22
4. 0.408, 0.804, 0.84 5. 60

B

1. 120 2. 28 3. 62
4. 0.560, 0.605, 0.650 5. 24

C

1. 60 2. 5 3. 20
4. 1.021, 1.102, 1.201 5. 42

D

1. 70 2. 20 3. 32
4. 2.059, 2.095, 2.509 5. 45

Challenge: 26 games

Homework 19

A

1. 320 2. 925 3. 490
4. 87 5. 426 6. 48.5

B

1. 380 2. 842 3. 400
4. 154 5. 690 6. 73.5

C

1. 440 2. 672 3. 628
4. 106 5. 540 6. 42

D

1. 460 2. 863 3. 600
4. 127 5. 930 6. 0.9

Challenge: One part = 0.12 metres.
 $3 \times 0.12 = 0.36$ metres

B

1. 30 cm 2. 320 m 3. 48 cm

4. 320 m 5. 60 cm

C

1. 45 cm 2. 53 mm 3. 112 cm

4. 124 m 5. 72 cm

D

1. 15 cm 2. 430 m 3. 84 cm

4. 1.8 m 5. 120 m

Challenge: 1175 millilitres**Homework 26****A**1. 216 cm³ 2. 288 cm³ 3. 650 mm 4. 1190 mm**B**1. 343 cm³ 2. 270 m³ 3. 2.4 cm 4. 62.8 cm**C**1. 512 cm³ 2. 168 m³ 3. 1080 m 4. 6904 m**D**1. 729 cm³ 2. 896 m³ 3. 95.213 km 4. 506.147 km**Challenge:** 12 bags**Homework 27****A**

1. 18 m 2. 192 mins 3. 0.0156 4. 83150

5. 0.023 6. 14 7. 15:52

B

1. 124 m 2. 56 3. 12

4. 64 5. 76% 6. 82%

C

1. 1073 2. 493 3. 96 4. 32° 5. 69°

D1. area = 35 cm² perimeter = 24 cm

2. -10 + 27 = 17 3. 7 + 42 = 49

4. 36 5. 23.31 6. 2.184

Challenge: One tile = 100 cm²Wall area = 240 × 160 = 38 400 cm²Tiles = 38 400 ÷ 100 = **384****Homework 28****A**

1. A (16, 14) 2. B (10, 19) 3. C (3, 2)

4. D (8, 0) 5. E (3, 15)

B

1. F (17, 10) 2. G (13, 6) 3. H (2, 6)

4. I (9, 8) 5. J (0, 8)

C

1. K (18, 3) 2. L (5, 18) 3. M (11, 13)

4. N (19, 19) 5. P (5, 11)

D

1. Q (14, 2) 2. R (20, 12) 3. T (1, 20)

4. V (6, 16) 5. W (15, 17)

Challenge: (7, 6)**Homework 29****A**

1. 24 2. 55 3. 39 4. 7

5. 6 6. 3 7. 20 8. 18

B

1. 35 2. 62 3. 24 4. -1

5. 8 6. 3 7. 100 8. 14

C

1. 70 2. 250 3. 51 4. -14

5. 6 6. 12 7. 28 8. 40

D

1. 75 2. 72 3. 75 4. -19

5. 12 6. 3 7. 18 8. 30

Challenge:  = 6,  = 32,  = 13

ZETA PRIMARY

MATHS & NUMERACY

CfE Second Level Homework

ANSWERS