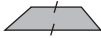


# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

## WEEK 1 – pages 2–3


### MONDAY

- 1.15
- 27
- 2
- 
- \$1.50
- 625
- 100
- true
- $(50 \times 9) - (1 \times 9)$
- 100
- A
- 10 010
- 50
- 1200
- 5
- 84, 78
- cone
- pm
- 57
- winter



### TUESDAY

- 39, 42, 45, 48
- 3
- spring
- 163
- 24
- 1200
- \$2.10
- 1991
- 13–19 km/h \$150
- 101 000
- 630
- 621
- 10
- $27 \div 3$
- parallelogram
- true
- 9
- 32, 16
- no
- 1000

### WEDNESDAY

- 4.15
- 60c
- 3
- 03, 3
- 
- $40 \div 4$
- 180
- 2
- $\div$
- 1000
- 24
- Teacher check
- 1600
- 24
- 240
- 8
- isosceles triangles
- false
- 1000
- 16

### THURSDAY

- 19
- 
- 3
- 40
- 2, -1
- 1650
- 350
- 4.30
- $\frac{1}{4}$
- octagon
- 100
- 27
- 270
- \$4.55
- Teacher check
- Teacher check, 15
- autumn
- 0.5
- 
- false

### PROBLEM-SOLVING

#### Monday

- 2
- 8

#### Tuesday

- 21
- 36



#### Wednesday

- 12
- 7

#### Thursday

- 150
- 850


### FRIDAY REVIEW

- 72
- 210
- 7
- \$1.60
- 0.25
- 75
- 40.6
- 37
- 1400
- 8
- 20–29 km/h \$300
- 3
- $36 \div 4$
- 987
- 82.4
- 17
- 340
- 6.15
- 
- winter
- 1000
- 3
- Y
- am
- 


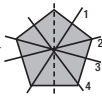
### WEEK 2 – pages 4–5

### MONDAY


- 6.20
- 7

- 1100
- 21
- 36
- \$8.75
- 111 110
- 10
- 
- 8, 1
- 4500
- false
- 4.87
- 64
- 240, 280, 320, 360
- summer
- trapezium
- 90 780
- 0.25
- 1200

### TUESDAY

- 210, 240, 270, 300
- 52
- 32
- 965
- 9500
- 100 011
- \$2.70
- 
- 810
- 801
- 10, 3
- 50
- 9
- 600
- rhombus
- true
- 
- 20.9
- 565
- 1800

### WEDNESDAY

- 8.20
- 3200
- 7
- 10 000
- 310 100
- 6
- 450
- 9
- $\frac{2}{3}$
- 
- even
- reflection
- 4
- 3.0
- 7, 3
- 240
- false
- 3, 5, 2, 17
- winter
- 845

### THURSDAY

- 7.25
- 24
- 93.7
- 3, 4, 2, 14


- summer
- 20
- 5
- 2 in 6,  $\frac{2}{6}$  or  $\frac{1}{3}$
- 500 000
- C, A, B
- 64
- odd
- 7
- 4
- 1000
- 139
- 180
- 171
- 9, 4
- 20 000

### PROBLEM-SOLVING

#### Monday

- 90
- 30

#### Tuesday

- 

- \$165


#### Wednesday

- 8
- \$320

#### Thursday

- 250
- 240


### FRIDAY REVIEW

- 15
- 0.5
- 441
- 1
- 4.13
- 705
- 4.0
- 450
- false
- 45
- 2, 4, 3, 11
- 7, 2
- 240
- 232
- 210 000
- even
- $\frac{4}{5}$
- 1000
- 1000
- 
- 8
- trapezium
- 5.20
- rhombus
- 3 in 6 or 50% or  $\frac{1}{2}$  or 0.5


### WEEK 3 – pages 6–7

### MONDAY

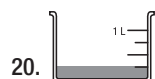
- 9.45
- 53
- 10 008
- 21–30 km/h \$150
- 10

- no
- 250 000
- 1.0
- rectangular-based pyramid
- 
- 45, 51
- 5, 2
- 3986
- 3, 30
- true
- \$180
- 11 August
- 7 pm
- 77
- $\frac{4}{5}$

### TUESDAY


- 202, 602
- 73
- 5 August
- $\times$
- 9
- 6, 5
- 13 000
- 0.25
- 28 cm
- 

- 1 000 000
- 560
- 1700
- 3D
- 85
- 1.8, 80
- 5
- true
- maximum temperature over  $30^\circ$  is highly unlikely in winter.





20.

### WEDNESDAY

- 11.45
- 210
- 140
- 114, 118, 122
- 
- 6, 2
- 12
- 3986
- 775
- 9
- 80
- $\frac{1}{2}$
- 0.9
- even
- 360
- 2
- 28 March
- $\frac{1}{2}$
- even
- 1 am

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

## THURSDAY

- 1006, 1010, 1014
- 320
- 3 pm
- 405
- 5
- 4, 5
- $\frac{12}{10} = 1.2 = 1\frac{2}{10}$
- 0.6
- 110
- 1.42
- 7800
- $\frac{3}{8}$
- 400
- 5
- 1.2
- kite, rhombus or parallelogram
- 27 December
- true
- 1000 
- 

## PROBLEM-SOLVING

### Monday

- isosceles triangles
- 540

### Tuesday

- 1.30
- 5, 4, 1



### Wednesday

- $\frac{8}{20}$  or  $\frac{4}{10}$  or  $\frac{2}{5}$
- $\frac{9}{20}$

### Thursday

- 20 L
- 15

## FRIDAY REVIEW

- 4, -2
- 9
- 9, 3
- $\times$
- $2\frac{3}{4}$
- true
- 3
- 350
- \$11.50
- 6400
- 875
- 250 000
- $\frac{11}{10} = 1\frac{1}{10}$
- 21–25 km/h \$300
- $\times$
- 1.0
- parallelogram
- 12 am
- 2000
- 42 m
- autumn
- 
- 1.2
- 
- $\frac{1}{2}$

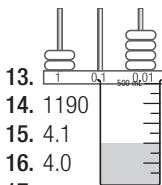
## WEEK 4 – pages 8–9

### MONDAY

- 2.10
- 120
- $6 \times 6 \times 2 = 72$
- \$65
- 3
- 4, 1
- $\frac{7}{10}$
- 9
- 5–12 km/h \$65
- 2.5 m
- $\frac{2}{5}$
- 1978
- 4, 4, 4, 20
- true
- 17, 19
- 3.1, 3.7
- D
- 4.7
- \$16.20
- 1 November



### TUESDAY

- 9.05
- 45
- 1
- 12
- 94
- 5, 5
- $\frac{8}{10}$
- 45, 135, 225
- 5, 1
- 1.2
- false
- 63, 630, 6300



- 1 January
- \$60
- northerly

### WEDNESDAY

- 
- 16
- 11
- 15
- 87, 107
- 5, 3, 5.3
- 24
- $4\frac{3}{4}$
- $\div$
- 2, 7, 3, 17
- 
- 1000
- 4, -6
- westerly
- 3 December
- D

17. 380

18.  $\frac{3}{6}$  or  $\frac{1}{2}$

19. 30

20. false

### THURSDAY

- 6.85, 7.30, 8.09, 8.1, 8.11
- 40
- 1 August
- 12
- 600 L
- Teacher check
- 6 r 6
- $\frac{4}{10}$  or  $\frac{2}{5}$
- $\frac{2}{3}$
- 2008

11.



- true
- 42, 420, 4200
- 6
- 24
- 450, 4, 50
- 3.045
- 98, 998, 9998
- false
- 1.05

## PROBLEM-SOLVING

### Monday

- 6150
- \$2, 50c, 20c, 20c

### Tuesday

- 600
- 0.4

### Wednesday

- 300
- 30

### Thursday

- 8, 3
- 6, 7

## FRIDAY REVIEW

- 8, 5
- odd
- 320
- true
- \$6.50
- 2, 4, 3, 11
- 14
- 997
- $\frac{2}{10}$  or  $\frac{1}{5}$
- $3\frac{5}{8}$
- $\frac{3}{10}$
- 226, 271, 316
- 5
- true
- 25
- 7.0
- 8.05
- Z = 5, 3 Y = 2, 3
- North
- triangular pyramid
- pm

22. →

23. 270

24. 2 January

25.  $\frac{2}{6}$  or  $\frac{1}{3}$



## WEEK 5 – pages 10–11

### MONDAY

- 3.35
- 550
- triangular
- (2,3), (3,4), (4,5)
- 7
- 2.5
- 0.4
- 75
- 1, 3
- 75
- 24 kL
- true
- 150 km/h
- $1\frac{2}{3}$
- 24
- east
- octagon
- 9
- 6, 8, 240, 288
- 7000

### TUESDAY

- 995
- 4614
- 7631
- 250
- 75
- $9 \times 9 = 81$ ,  
 $12 \times 7 = 84$
- $3\frac{1}{2}$
- 29 March
- 91
- triangular, 6
- 55
- 25
- 1998
- 7000
- 6
- 6100
- 150
- 80, 7, 3, 7, 21, 581
- 4 am
- 0.54

### WEDNESDAY

- 11.35
- 27 902
- $\frac{5}{9}$
- 10
- 8 November
- 4, 3, 6, 22
- 980, 1000, 1020, 1040, 1060
- parallelogram
- true
- 3046
- 880
- 5
- $\frac{3}{5}$
- 56
- 157 km
- 4, 9, 720, 36, 756
- $4\frac{1}{2}$
- 2900
- 9, 15
- 12.30 am
- 6.05
- 4015
- 11
- square-based pyramid
- 5, 8, 5
- 8, 6
- 0.7
- 5075
- \$199.50
- 150 km/h
- $6 \times 9 = 54$  or  $9 \times 6 = 54$   
 $54 \div 6 = 9$  or  $54 \div 9 = 6$
- 3500
- $\frac{1}{2}, \frac{1}{3}$
- 6, -2
- 8 pm
- 3485
- 9
- $\frac{3}{2}$
- 26
- false

### THURSDAY

- 6.05
- 4015
- 11
- square-based pyramid
- 5, 8, 5
- 8, 6
- 0.7
- 5075
- \$199.50
- 150 km/h
- $6 \times 9 = 54$  or  $9 \times 6 = 54$   
 $54 \div 6 = 9$  or  $54 \div 9 = 6$
- 3500
- $\frac{1}{2}, \frac{1}{3}$
- 6, -2
- 8 pm
- 3485
- 9
- $\frac{3}{2}$
- 26
- false

## PROBLEM-SOLVING

### Monday

- C
- A, B, C

### Tuesday

- 30, 30, 30
- $720^\circ$

### Wednesday

- 5
- 1

### Thursday

- 20
- 12

## FRIDAY REVIEW


- 9
- 21
- $(70 \times 7) + (2 \times 7) = 490 + 14 = 504$
- 0.34
- 5, 5
- 76 501
- 94
- false
- $\frac{5}{2}$
- 95
- 0.7
- 2
- 6096
- $7 \times 7 = 49$ ,  $9 \times 9 = 81$
- \$1.50
- 4.05
- 5
- 6000
- 12.10 am
- Teacher check
- 32 kL
- Teacher check

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

23. 3300  
24. 10  
25. 10 – Spinner B

## WEEK 6 – pages 12–13

### MONDAY

1. 8.50
2. 2, 02
3. 10c
4. 9
5. 894
6. 37
7.  $\frac{7}{2}$
8. 24 December
9. 60
10.  $\frac{1}{2} = \frac{5}{10}, \frac{1}{2} = \frac{2}{4}$
11.  $1\frac{2}{3}$
12. true
13. 0.8
14. 1.01 am
15.  $500 \times 10, 5 \text{ KL}$
16. 25
17. 
18. 14, 2
19. 8100
20. 0.5 t

### TUESDAY

1. 25
2.  $2\frac{2}{3}$
3. 9, 6
4. 11
5.  $\frac{4}{6}$
6. 1 ML
7. 7000
8. 8
9. 2
10. 15
11. 4, 8
12. 2.4
13. 31 July
14. 900
15. 9159
16.  $\frac{6}{10}$
17.  $\frac{21}{5}$
18. 12.10 am
19. 33
20. 2.05 m

### WEDNESDAY

1.  $\frac{1}{5}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$
2. 12.50
3. true
4. 9909
5. 32
6. 3 km
7. 995
8. 1.25
9. 75c
10.  $\frac{1}{3}$
11. 33, 1
12. pentagon
13. 1001
14. 4, 1

15. 8
16.  $\frac{2}{6}$  or  $\frac{1}{3}$
17. \$16.50
18. 1000, 1
19.  $1\frac{1}{3}$
20.  $\frac{37}{6}$

### THURSDAY

1. 9.55
2. 1029
3. prism
4. true
5. 1750
6. 7
7. 1 kg
8. 0.7, 70
9.  $3\frac{1}{10}$
10. 1000 m
11. 12 pm
12. 4.89
13. 270
14. 3909
15. 26 April
16.  $\frac{2}{3}$
17.  $3\frac{1}{3}$
18. 16
19. 27
20. 1.1

### PROBLEM-SOLVING

#### Monday

1. R = 0.4
2. B = 0.3

#### Tuesday

1. 1000
2. 30, 330

#### Wednesday

1. 120

2.



#### Thursday

1. 40
2. 12, 6

### FRIDAY REVIEW

1.  $\frac{5}{10}$
2. 15
3.  $\frac{3}{4}$
4.  $2\frac{3}{4}$
5.  $\frac{14}{3}$
6. 1903
7. 851
8. 43
9. 14
10. false
11.  $\frac{3}{4}$
12. 8088
13. 10
14. 39
15.  $\frac{6}{10}$
16. 8, 3
17. 3.0
18. 6.50
19. 28 September

20. 4 km
21. 2 000 000 L, 2000 kL
22. 4
23. 1 kg
24. 10 kg
25.  $\frac{1}{2}$


## WEEK 7 – pages 14–15

### MONDAY

1. 121
2.  $\frac{16}{3}$
3. 1003, 10 003
4. 20c
5. 1
6. 9
7. 1.0
8. 5
9. 75
10. 30 000
11. false
12. reflection
13. Sunday
14. 1103
15. 1050
16. 12
17.  $\frac{9}{5}, 1\frac{4}{5}$
18. 105
19. 4000
20. -2, -1, 1, 2, 3

### TUESDAY



1. 
2. 960
3. 35 000
4.  $\frac{18}{5}$
5. 10
6. 240, 48, 288
7. 8, 4
8. 976 531
9. 8
10. 400
11. 160, 320
12. 991
13. 1.40
14. 375 km
15. 1.15 pm
16. 7
17. spring
18. 1200
19. 2
20.

### WEDNESDAY

1. 120
2.  $6 \times 8 = 48$  or  $8 \times 6 = 48$ ,  
 $48 \div 8 = 6$  or  $48 \div 6 = 8$
3. 28 000
4.  $\frac{16}{6}$
5. 2700
6. 9, 9
7. 1.1kg
8. 2600
9. 3000 L
10. odd
11. 30
12.  $2\frac{1}{2}, 3\frac{1}{2}$

13. 20
14.  $7\frac{4}{5}$
15. 4, 80
16. trapezium
17. 11.59 pm
18. 3000
19.  $\frac{4}{5}$
20. 1700

### THURSDAY

1. 100
2. 90 000
3. 3.5
4. 2
5.  $\frac{15}{4}$
6.  $\frac{8}{3} = 2\frac{2}{3}$
7. odd
8. \$8.60
9. 45
10. 1992, 1996
11. true
12. 360
13. 12, 48
14. 145
15.
16. 8
17.  $\frac{2}{3}$
18. 72
19. 965
20. 12 t

### PROBLEM-SOLVING

#### Monday

1. 805 km – 107 km
2. 912

#### Tuesday

1. 125
2. 5

#### Wednesday

1. 12.50 am, 1.10 am,  
1.30 am, 1.50 am
2. 20 minutes

#### Thursday

1. rotation
2. 4, 8

### FRIDAY REVIEW

1.  $\frac{24}{5}$  or  $4\frac{4}{5}$
2. 10 003
3. 2
4. 16, 64
5.  $\frac{34}{5}$
6. 8
7. -3, -2, -1, 1
8. 996
9. 3
10. \$10.50
11. 1200
12. odd
13. 70
14. 10
15. 750 m
16. 9, 8
17. 100
18. 15 t
19. 40 000
20.



21. 60°
22. 1096
23. 10.59 pm
24. summer
25. Wed

## WEEK 8 – pages 16–17

### MONDAY

1.  $1\frac{1}{3}, 1\frac{2}{3}, 2\frac{1}{3}, 2\frac{2}{3}$
2. 16
3. 1008, 10 008
4. 12
5.  $\frac{13}{3}$
6. 20
7.  $\frac{4}{5}, \frac{3}{4}, \frac{2}{4}, \frac{1}{3}, \frac{1}{5}$
8. southerly
9. 3, 8
10. 0.75
11. 41, 41
12. 6100
13. 22
14. 9090
15. 20
16. 23 June
17. 42, 48, 54, 60
18. 1500 m
19. 6, 12, 8
20. 2040



### TUESDAY

1. 24
2. 90 cm
3. 
4.  $\frac{22}{5}$
5. 10
6. 670
7. 400 440
8. 20–29 km/h \$200
9. Monday
10. 5
11. 1.0, 3.0
12. 
13. ÷
14. 31 August
15. 1. Bella      2. Sam  
3. Jo              4. Nel
16. 240
17. 40
18. true
19. 3000
20. 140


### WEDNESDAY

1. 270°
2. 3, 2
3. 7
4. 150, 350
5. 4, 2, 320
6. 4, 2
7. 720
8. ×
9. 10.8
10. 15
11. 114 km

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

12. 4
13. false
14. 35
15. 17
16. 
17.  $\frac{19}{3}$
18. 
19. 500, 50
20. 4

## THURSDAY

1.  $240^\circ$
2. 20.6
3.  $\frac{4}{3} = 1\frac{1}{3}$
4. 5
5. 11 896
6. odd
7. 998
8. 1050
9. 4
10. 4
11. 126
12. 795
13. Teacher check
14. 6
15. 8900
16. 21, 189
17. 8
18. 50
19. 
20. 0.25, 0.5

## PROBLEM-SOLVING

### Monday

1. C
2. D

### Tuesday

1. 0.3
2. 0.2

### Wednesday



1. C
2. \$560

### Thursday

1. 5
2. 3, 19

## FRIDAY REVIEW

1. 96 430
2. 25
3. false
4. 8.3
5. 5900
6. 110
7. true
8. 240
9. 1909
10. -1, -11, -5, -2
11. 12, 36, 108
12. 3009
13. 50 000 050
14. 70%
15. \$28.50
16. 640, 640, 320
17. 18
18. 6
19. 5, 5

20. 
21. 8
22. 200, 20
23. 2000
24. 
25. 1. dogs    2. cats  
3. camels    4. goats

## WEEK 9 – pages 18–19

## MONDAY

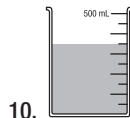
1.  $120^\circ$
2. 1.08
3. 17, 170
4.  $\frac{19}{5}$
5. 5
6. false
7. 10 000
8.  $81 \div 9 = 9$
9. parallelogram
10. 1100
11.  $\frac{12}{5}$  or  $2\frac{2}{5}$
12. 24
13. 0.6
14. 5
15. 15 km
16. 15, 7, 15
17. 100
18. 110 km
19. 5
20. 75

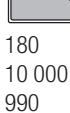
## TUESDAY

1. 10 000
2. 300
3. 10 005, 100 005
4. spring
5.  $\frac{44}{10}$
6. 14
7.  $\frac{35}{100}$
8. Saturday
9. 13
10.  $180^\circ$
11. 20.5 or 20 r 5
12. 6
13. 85 200
14. 727
15. -5, 0
16. 168 L
17. \$34.50
18. 2, 3
19. 6
20. Teacher check

## WEDNESDAY

1. 97 410
2. 26
3. 5
4. 147
5. 135
6. 59.9
7.  $12 \times 4 = 48$  or  $4 \times 12 = 48$  or  $48 \div 4 = 12$  or  $48 \div 12 = 4$
8. 41
9. 2.02 am



10. 
11. 180
12. 10 000
13. 990
14. 3100
15. 1.2
16. 310
17. 15
18. 865
19. 5
20. 90

## THURSDAY

1. 87 623
2. 100 004
3. 49
4.  $\frac{21}{4}$
5. 4000
6. 35
7. 1000
8. 7, 11
9. 32 956
10. 5
11. 4
12. 14
13. 0.05
14.  $\frac{32}{5} = 6\frac{2}{5}$  or 6.4
15. 36
16. 1.27
17. 9.55 am
18. 3500
19. 25
20.  $\frac{7}{25}$ , 28%

## PROBLEM-SOLVING

### Monday

1. B



### Tuesday

1. 700
2. 1200

### Wednesday


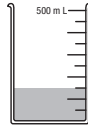
1. Teacher check
2.  $\frac{5}{12}$

### Thursday

1. 300
2. 4


## FRIDAY REVIEW

1. 100 003, 1 000 003
2. 1.87
3. 1.02
4. 8
5. 2, 7
6. 5
7.  $5\frac{5}{8}$
8. 0.09
9. 23
10.  $5\frac{1}{10}$
11.  $3\frac{3}{4}$
12. 32
13. true
14. 48.7

15.  $270^\circ$
16. 10 000
17. 4
18. 10.45 pm
19. 3000
20. 
21. 360
22. 22
23. 
24. 2
25.  $\frac{4}{25}$ , 16%

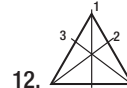
## WEEK 10 – pages 29–31



## MONDAY

1. 4
2. 9
3. 910
4. 999, 9999
5. 10
6. 1010
7. 1.5
8. 910
9. 30
10.  $\frac{24}{100}$ , 100
11. 9
12. 24 km
13.  $8\frac{1}{2}$
14.  $\frac{8}{10}$
15. 87
16. 12, 5
17. 12, 3
18. 15
19.  $\frac{11}{6}$
20. 

## TUESDAY

1. 180
2. 11, 1100
3. Teacher check
4. 10, 5
5. 4, 3, 1, 2
6. 48, 96
7. 11, 7
8. Ema, Oma, Ama, Mila
9.  $\frac{26}{3}$
10. 123
11. 8



12. 
13. 400.9
14. 
15. 25
16. \$6.70
17. 6.20 pm
18. 5.8
19. 65 000
20. 55

## WEDNESDAY

1. 6739
2. 3, 2, 4, 1
3. 351
4.  $\frac{48}{5}$

5.  $\frac{2}{3}$
6.  $\frac{5}{6}$
7. 60, 90
8. 331
9.  $\frac{15}{4}$
10. 15
11. 0.35, 0.15, 0.45
12. 16
13. 8910
14. \$7.80
15. 2
16. 3
17. 3
18. -1
19. pentagonal pyramid
20. 2458

## THURSDAY

1. 621
2.  $\frac{3}{10}$
3. isosceles
4. 1002
5. 11 100
6.  $1\frac{1}{2}$
7. 19
8.  $\frac{3}{4}$
9. 4 October
10.  $8\frac{2}{3}$
11. 11.2
12.  $\frac{1}{4}$
13. 28
14. 1.3
15. 10.35, 10.15, 10.25
16. 6.30 am
17. H
18.  $429 + 48 = 477$
19. 8
20. 25%

## PROBLEM-SOLVING

### Monday

1. 2
2. 9

### Tuesday

1. 4
2. 6

### Wednesday

1. 10
2. 4

### Thursday

1. 9500
2. 60

## FRIDAY REVIEW

1. 9990
2. 996
3. 12
4. 10
5.  $6\frac{3}{5}$
6. 6.05, 6.15, 6.25, 6.35, 6.45
7.  $15 + 45 = 60$   
 $45 + 15 = 60$   
 $60 - 15 = 45$   
 $60 - 45 = 15$
8. 20.04

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

9. 28
10.  $\frac{3}{3}$
11. 4
12.  $\frac{2}{6}$  or  $\frac{1}{3}$
13. 200.7
14. 256
15. 3, 4, 2, 1
16.  $1\frac{2}{4}$  or  $1\frac{1}{2}$
17. 18, 18
18. trapezium
19. E
20. 300
21. 10
22. 45
23. 240, 237
24. 24 000
25. Fini, Vini

## WEEK 11 – pages 32–34

### MONDAY



- 1.
2. 1000
3. negative
4. 40
5. 7.5
6. 2, 20
7. 24
8. 60
9. **6**
10. 8, 8
11. 2.7, 2.4
12.  $\frac{7}{8}$
13.  $60^\circ$
14. 30
15. 3000
16.  $\frac{13}{8} = 1\frac{5}{8}$
17. even
18. 60
19. 24
20. 22 hours

### TUESDAY



- 1.
2. 01
3. -3, -2, -1, 0
4. 90
5.  $3\frac{2}{8}$
6. 0.77
7. 3
8.  $90^\circ$
9. 9 hours
10.  $100^\circ$
11. 3
12. 7
13. 850, 1115
14. 160
15. 19 895
16. 15
17. 54, 27, 9, 3
18. even
19. 5600 r.p.m.
20. 400

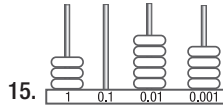
### WEDNESDAY

1. 826
2. 830
3. -3, -2, -1
4. 018
5. 15
6.  $\frac{2}{6}$
7. 5, 50
8. 64
9. 1110
10.  $300^\circ$
11.  $\frac{1}{3}$
12. easterly
13. 10 hours
14. even
15. 112
16. 20 000
17. 9
18. 10
19. 4, 52
20. 991 000

### THURSDAY



- 1.
2. 10
3. 565
4. 1.3
5. 161
6. **k**
7. 9
8. 136
9. 2000
10. Teacher check
11. 201
12. true
13. 8 hrs 45 min
14.  $100^\circ$



- 15.
16. 20
17. 30
18. 22
19. 13
20. 3

### PROBLEM-SOLVING

#### Monday

1. Kimmo
2. Timmo

#### Tuesday

1.  $\frac{1}{6}$ ,  $\frac{1}{8}$
2. B

#### Wednesday

1. Teacher check
2. Teacher check

#### Thursday

1. 60
2. 9

### FRIDAY REVIEW

1. 16
2. 0.31
3. 0.1
4. -3, -2, -1
5. 5

6. odd
7. false
8. 33
9. 1
10. 140
11.  $\frac{2}{3}$
12. 80
13. 1000
14. 440
15. 9
- 16.
17.  $90^\circ$
18. 12.5 cm
19. Teacher check
20.  $70^\circ$
21. **e**
22. 4 hrs 45 min
23. 14 m<sup>2</sup>
24. 18 m
25. 4, 52

## WEEK 12 – pages 35–37

### MONDAY

1. 17 924
2. 10 001
3. 4
4.  $\times$
5.  $\frac{14}{4}$
6. 31
7. **hi**
8. 9318
9. 49
10. 5, 19
- 11.
12. 8
13. even
14. \$3
15.  $100^\circ$
16. 27
17. 1500
18.  $\frac{4}{4}$
19. 18
20. 18

### TUESDAY

1. 170 000
2. 120
3. 34
4. 6
- 5.
6. 5
7. 20
8. 3330, 3303, 3033, 3030, 3003
9. 9000
10. 8890
11. 63
12. 892
13. south-east
14.  $1\frac{6}{10}$  or  $1\frac{3}{5}$
15. 15, 15
16. 1.089

17. 100 000
18. 28 cm<sup>2</sup>
19. 22 cm
20.  $270^\circ$

### WEDNESDAY

1.  $120^\circ$
2. 100
3. 73
4.  $\frac{2}{3}$
5. 6
6. \$122
7. 05
8. 30
9. false
10. 13
11. 13 hrs 50 min
12. 991
13.  $\frac{6}{6}$
14. 32
15.  $\frac{24}{10}$
16. 120
17.  $2\frac{5}{8}$
18. north-east
19.  $8 \times 7 = 56$ ,  $7 \times 8 = 56$   
 $56 \div 8 = 7$ ,  $56 \div 7 = 8$
20.  $\frac{26}{52}$ , 0.5

### THURSDAY



- 1.
2. 1.10
3. 358
4. 40, 0.4
5. Teacher check
6. 0.5
7. 017
8. 10
9.  $45^\circ$
10. 2
11. 42
12. **ll**
13. false
14.  $180^\circ$
15. 12 cm
16.  $A < B < C$
17.  $\frac{3}{10}$
18. 100
19.  $5\frac{3}{4}$
20. 9

### PROBLEM-SOLVING

#### Monday

1. 4
2.  $\frac{1}{8}$

#### Tuesday

1. 25%
2. 60, 90

#### Wednesday

1. \$16
2. \$480

#### Thursday

1. 66 km
2. 100 km

### FRIDAY REVIEW

1. 10
2. 0.7
3. false
4. 6
5. 0.014
6. 37
7.  $\frac{2}{16} = \frac{1}{8}$
8. 5, 7
9. 32
10. 1200
11. 4, 04
12. even
13.  $6 \times 9 = 54$   
or  $9 \times 6 = 54$ ,  
 $54 \div 9 = 6$   
or  $54 \div 6 = 9$
14. 29.25
15. 1050
16. 60 - 4
17. 1.063
18. 10 000
19.  $75^\circ$
- 20.
21. south-east
22. **bqd**
23.  $60^\circ$
24. 0.25
25. 0.5

## WEEK 13 – pages 38–40


### MONDAY

1. acute  $40^\circ$
2. 10 001
3.  $30 + 6$
4. 1300
5. -6, -5, -3, 0, 2
6. 14
7. 1
8.  $4\frac{2}{5}$  or 0.4
9. **top**
10. 4, 52
11. 12
12. 9
13. 01, 1%
14. 699 900
15. 10 000
- 16.
17. 14
18. 20, 14
19. 12
20.  $\frac{3}{5}$

### TUESDAY

1. 23
2. 17.5
3. 4500
4. 12
5. 2.72, 2.00
6. 2
7. 12
8. Teacher check
- 8.
8. 79 990

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

- \$6.75
- 14 hours
- 29
- 3 pm
- Teacher check
- 
- 32
- $\frac{4}{6} = \frac{2}{3}$
- 77
- 100
- 12
- \$90

## WEDNESDAY

- Simon – 3, Lucy – 1, Sam – 2
- true
- 19
- 79
- 8
- 6:51 am
- 1
- 22
- 17
- \$39.50
- 3, 0.75
- $75^\circ, 105^\circ$
- $\frac{1}{3}$
- false
- 31
- $270^\circ$ , reflex
- 9607
- $\frac{17}{3}$
- 800
- 450

## THURSDAY


- 30
- 60
- 750 000
- 2
- 2
- 5097
- 910 000
- triangular prism
- 4, 48
- 5
- 50
- car
- \$29.50
- 56, 56
- $\frac{2}{6}$  or  $\frac{1}{3}$
- 7
- 100
- B, C, A
- 18
- 18

## PROBLEM-SOLVING

Monday

- 6
- cyclops

Tuesday

- 
- 9, 1, 0


Wednesday

- 45
- C

Thursday

- 6, 9
- 9

## FRIDAY REVIEW

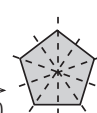

- 68, 68
- true
- 250 000
- 60 000
- 2
- 7750
- 42
- true
- 26
- 3, 1
- $\frac{2}{3}$
- 6107
- 12
- $\frac{15}{4}$
- 14
- \$34.25
- 50
- 
- 9.00, pm
- 10.02
- $120^\circ$
- 21
- 20 m




- $\frac{1}{8}$

## WEEK 14 – pages 41–43

## MONDAY

- 14
- 130
- 80c
- 6296
- 8
- 640
- 632
- 12
- 0, A, A
- $\frac{4}{52}$
- 8
- 1
- 
- 5910
- 3
- 40
- 60 000
- 3
- 30 m<sup>2</sup>
- 

## TUESDAY

- 0
- 280, 273
- 13
- 12 m<sup>2</sup>
- 
- 2850
- 6990

- 1200
- ÷
- 10 000
- 0.342
- 2058
- 900 000
- $2\frac{3}{4}, 3\frac{3}{4}$
- 961
- even
- 2400
- 5, 1, 1
- $\frac{4}{4}$

## WEDNESDAY

- 32
- 400, 392
- 2298
- 9
- 72, 96
- 26
- 7994
- 0.132
- odd
- 100
- Teacher check
- $720^\circ$
- 60, 6, 4, 6, 24, 384
- 25
- 16, 80
- 10 001
- 17 hrs 15 mins
- $\frac{8}{52} = \frac{2}{13}$
- 300 000
- $2\frac{1}{4}, 3\frac{1}{4}$

## THURSDAY

- 480
- 29
- 8
- 10th
- false
- 6
- \$34.50
- 5
- $4\frac{3}{8}$
- 3035
- 14
- 20
- 100
- 9, 09
- 6
- 25 cm<sup>2</sup>
- 2, 1
- 10
- \$175
- 120

## PROBLEM-SOLVING

Monday

- 0.25
- 0.5

Tuesday

- 800 m<sup>2</sup>
- 450m<sup>2</sup>

Wednesday

- 10 m<sup>2</sup>
- 20 m

Thursday

- 4, 44
- \$330

## FRIDAY REVIEW

- 210, 203
- 170
- 24 487
- ÷
- $5\frac{1}{3}, 6\frac{2}{3}$
- 8994
- 100
- true
- 18
- \$4
- 176
- $\frac{1}{4}$
- 04, 4
- 15
- 100
- 50
- 0.8
- 30, 4, 28, 238
- 963
- 25 hrs 30 mins
- $95^\circ, 85^\circ$
- 9 cm<sup>2</sup>
- circle
- 9
- $\frac{4}{52}$

## WEEK 15 – pages 44–46

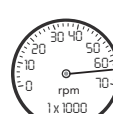
## MONDAY

- < half a kg
- 896



- 
- 1.00
- $\frac{1}{4}$
- 10 am
- 9197
- 63
- 4.5
- $45^\circ$
- 49
- 100 000
- 100
- isosceles
- 31
- 25, 25
- false
- 89 950
- 899 950
- 8 999 950

## TUESDAY


- 1.40
- 40, 40
- 8
- 20
- 
- 6100
- 2 pm
- Teacher check
- 125
- 6
- 12, 52

- 45
- right angle
- 4
- 1
- 1030
- Teacher check
- 34
- 399 900
- 3 999 900

## WEDNESDAY

- 5200
- 6708
- 29
- 6, 3, 1
- B
- 1, 08
- 2800
- 9
- $\frac{1}{5}$
- $10^\circ$
- 72, 18
- 0.6, 60
- 4
- $6\frac{2}{3}$
- $\frac{15}{9}$
- scalene
- 125 000
- 23
- 1350
- 1280 kg

## THURSDAY

- 2
- 4208
- 100
- 1.20
- 0.36
- 7
- 10
- 699 500
- 7
- 3493
- rectangle
- 100
- $\frac{5}{10}$  or  $\frac{1}{2}$
- 
- 80
- 6, -4, 0, 1, 3, 5
- false
- Teacher check
- \$41.80
- 35 minutes

## PROBLEM-SOLVING

Monday

- 6
- 20

Tuesday

- 30 000 m<sup>2</sup>
- 800 m

Wednesday

- 400 000 m<sup>2</sup>
- 40

Thursday

- A and B
- C

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

## FRIDAY REVIEW

- 10 000
- 3273
- 140
- 1.1
- 100
- 3, 1
- 3493
- 160
- 4
- 71 000
- ×, ✓
- Teacher check
- 13
- 5
- 7
- 41
- 50 000, 5
- 3.5
- 4
- 
- 140, 180
- 2018
- 12 pm
- 1555
- 25



## WEEK 16 – pages 47–49

### MONDAY

- 1.10 pm
- 150
- parallelogram
- 2.1
- 15
- 7996
- $4\frac{1}{7}$
- 1.4
- $95^\circ$
- $3\frac{3}{4}, 2\frac{3}{4}$
- 151 km
- 3
- 0
- 5
- $\frac{2}{3}$
- \$27.20
- $130^\circ$
- 90 900
- 70 000
- true

### TUESDAY

- 3.20 pm
- 7999
- 
- 70
- 84
- 2.9
- 8
- rectangle
- 36
- 44 km
- 10 000
- 30 505
- 4

- 21
- 70 500
- 125 000
- 150
- kite, rhombus
- 144
- 97

### WEDNESDAY

- 2.55 pm
- 12 km
- 957.8
- 2.5
- 4
- 5
- 100
- 07, 7
- 1700
- 68
- $135^\circ$
- 7
- 1101
- $\frac{39}{7}$
- \$22.20
- 5
- $100^\circ$
- square
- false
- 28 m

### THURSDAY

- 7:05 am
- 160
- 540
- 16
- 15
- 2.5
- 3228
- $B > C$
- 25
- $A < B > C$
- true
- 96
- 25
- 1.102
- 60, 5, 65
- 380
- 40
- \$25.20
- 4, 9, 15
- true

### PROBLEM-SOLVING

Monday

- 50%
- 20%

Tuesday

- $\frac{6}{20}$  or  $\frac{3}{10}$
- \$150

Wednesday

- 20 000
- 30 000

Thursday

- 8
- 7

### FRIDAY REVIEW

- $5\frac{6}{7}$
- 1 000 006

- 15
- 191
- 160
- 2.8
- $\frac{1}{4}, 25$
- \$22.20
- 7
- 3, -6
- 207 000
- 12
- 62 500
- 4500
- true
- 9
- 2037
- 39
- 2.40 pm
- 58 km
- 58 km
- 3.4 kg or 3400 g
- 35 m<sup>2</sup>
- 24 m
- $\frac{2}{6}$  or  $\frac{1}{3}$

## WEEK 17 – pages 50–52

### MONDAY

- 27
- 0.03
- 9, -3, -2, 0, 1, 5
- 4.8
- 7919
- 3
- 4
- 500 000
- 4, 5, 6, 7, 2, 3, 1
- 2994
- 72
- 94
- 
- 890 000
- 3
- 1.111
- 58 mm
- 64
- 600
- \$28

### TUESDAY

- Wanna-B Diva, 64 sec.
- 10 006
- \$7.05
- 39.2
- 1 500 000
- 9707
- 9.8
- 76 km
- spz
- 25
- 51
- 25, 25
- 178
- 25
- \$850
- even
- $5\frac{7}{8}$
- \$38.25

- 9019
- 170

### WEDNESDAY

- 9.07
- 36
- 1, 10
- 0.04
- \$1550
- 1.2
- 4193
- 3.6
- 3, 1
- \$6.40
- 800, 20, 820
- 34
- Teacher check
- 7.0
- 72
- 84
- $180^\circ$
- 450
- true
- 0.02, 0.2, 0.22, 2.02, 2.2, 2.22

### THURSDAY

- 18 000
- 
- 93 500
- 15 375
- 400
- 4
- 2.111
- p, h, k
- \$1290
- true
- 1 250 000
- 110, 70
- 1
- 9
- 24
- 3
- 4214
- 7297
- a red colour
- 3.33, 3.13, 3.03, 3.00, 0.33, 0.3

### PROBLEM-SOLVING

Monday

- 25 kg
- \$100

Tuesday

- Purple
- 0.2

Wednesday

- Liam
- \$430

Thursday

- 2
- 10

### FRIDAY REVIEW

- 6
- 15, 21, 28
- 350, 350
- 29
- 3992
- 25 500

- 138
- true
- 45
- $\frac{31}{4}$
- 1.111
- 26
- 49
- 90.7
- 8
- 11 041
- 4.5
- \$7.50
- 8.02 am
- 9 pm
- 180
- NW
- $120^\circ$
- dog
- Nil or impossible

## WEEK 18 – pages 53–55

### MONDAY

- 9
- 110
- 250
- 0.07, 0.7, 7, 7.07, 7.17, 7.7
- $\frac{2}{3}$
- 8.2
- pentagonal prism
- $\frac{2}{4}$  or  $1\frac{1}{2}$
- 108, 112, 116, 120
- $5\frac{7}{10}$
- 0.5
- $\$20 - \$6.40 = \$13.60$
- $\frac{7}{8}$
- 10 000
- 200 000
- 1
- 4, 8
- 1206
- 1.05
- 7500

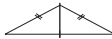
### TUESDAY

- 8
- 490 000
- 10 003
- 4492
- 
- 7.1
- 325 675
- rectangle
- 3
- 
- 4.5
- 40
- 4
- 0.2
- 25
- 6
- 39 900
- 17


# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

19. 2392  
20. 8.88, 8.8, 8.18, 8.08, 8, 0.8, 0.08

## WEDNESDAY

1. 6.606, 6.045, 6.006, 5.869  
2. \$2250  
3. 3  
4. 6.5  
5. 24  
6. 2896  
7.  $130^\circ$   
  
8. 90  
9. 40  
10. 40 000  
11.   
12. 1  
13. 5.15 am  
14.  $4 \times 9 \times 2 = 72$  or  $(2 \times 4) \times 9 = 72$   
15. 110  
16. 5000  
17. 1070  
18. 9101  
19.  $35 \text{ m}^2$   
20. 24 m

## THURSDAY

1. Alex = 1, Max = 2, Rohan = 3, Oliver = 4  
2. 16  
  
3.  
4. 5, 1  
5. 3.9  
6. 10 000  
7. 80  
8. 600  
9. 11.102  
10. 2.34  
11. 24 km  
12. 111 111  
13. 21  
14. Teacher check  
15. 1  
16. 990  
17. 156, 162, 168, 174  
18. \$18.60  
19. 10 500  
20. 96

## PROBLEM-SOLVING

### Monday

1. 6  
2. 4

### Tuesday

1. Conor  
2. 4, 9

### Wednesday

1. 0.25  
2. 500 g for \$1.00

### Thursday

1. 40  
2. 67.50

## FRIDAY REVIEW

1. 480  
2. 95  
3. 66, 72, 78, 84  
4. 14  
5. 150 000  
6. 48  
7. 59 990  
8. 27 055  
9.  $\frac{2}{3}$   
10. 11.111  
11. 0.15  
12. 83  
13. 8.80, 8.08, 8, 0.88, 0.8, 0.08  
14. 16  
15. false  
16. 16  
17. 1794  
18. 7.101, 7.099, 7.09, 7.01  
19. 6  
20. 9, 2  
21. 1040  
22.  $60^\circ$   
23. 1  
24.  $A = \frac{3}{4}$ ,  $B = 25\%$   
25. 26, 52 or 50% or 0.5

## WEEK 19 – pages 56–58

## MONDAY

1. 10.50  
2. 4008  
3.  $135^\circ$   
4. 170  
5. 5, 50  
6. 0.25  
7. 50  
8. 10.0  
9. 200  
10. 6101  
11. 39 111  
12. 0.35  
13. 7, 4, 0, -3, -8  
14. 7  
15. double 44, then double the answer.  
16.  $\times 10$   
17. no  
18. 3.303  
19. 1500  
20. false

## TUESDAY


1. 6000  
2. 500, 5000  
3.  $\times 100$   
4.  $1\frac{1}{4}$   
5.  $7\frac{3}{5}$   
6.  $22 \text{ m}^2$   
7.  $2 \times 55 \times 2$   
8.  $\frac{4}{5}$   
9. 10 L  
10.  $\pi \times r^2$   
11.  $90^\circ$   
12. 10

13.  $45^\circ$   
14. 0.01  
15.  $\frac{1}{4}$ , 25  
16. 6 Glosticks for \$9.00  
17. 19 900  
18. 25  
19.  $4\frac{6}{7}$   
20. 36 km

## WEDNESDAY

1. 7640  
2. 4768  
3. 5  
4. 280  
5. 700 g + 600 g  
6. 20 L  
7. 10.4  
8.  $30^\circ$   
9. 30  
10. 100  
11. 5980  
12. 410.9  
13. 3  
14. 1  
15. 15 faces coloured  
16. 700 000  
17. 42 km  
18.  $\times 100$   
19. 300  
20. 10 000

## THURSDAY

1. 77 500  
2. 8020  
3. 23, 9  
4. 10  
5. 9973  
6. 10.6  
7. 3  
8. 48  
9. -4, -3, -2, 0, 1, 5, 6  
10.   
11.  $\times 1000$   
12. 550  
13.  $\frac{1}{5}$   
14. (1,3)  
15. 0.3, 0.33, 3.03, 3.13, 3.3, 3.33  
16. 153  
17. rhombus  
18.  $\$10 - \$8.40 = \$1.60$   
19.  $45^\circ$   
20.  $\frac{1}{3}$

## PROBLEM-SOLVING

### Monday

1. 6, 2  
2.  $12 \text{ m}^2$

### Tuesday

1. 5  
2. \$300  
Wednesday  
1. 7 hrs 30 mins or 450 minutes  
2. 28

### Thursday


1. 7  
2. 3.5

## FRIDAY REVIEW

1. 4 coloured  
2. 3  
3. 48  
4. 05, 5  
5. 9980  
6. 309.8  
7. 2000  
8.  $32 \div 8 = 4$   
9. true  
10. 570  
11. 150  
12. 0.28  
13. 12  
14.  $\times 100$   
15. \$7.40  
16. 6000  
17. 131  
18. 34  
19. A  
20. 56 km  
21.  $70^\circ$   
22. translated  
23.  $45^\circ$   
24. 10 000  
25. 0.5

## WEEK 20 – pages 59–61

## MONDAY

1. 4.55  
2. 150  
3. 10 002  
4. 8869  
5. 66 km  
6. 20.0  
7. 225  
8. 01  
9. (a) b, c (b) a  
10. 6000  
11. 67 250  
12.  $7\frac{1}{5}$   
13. 30  
14. 3.8  
15.   
16. Teacher check  
17. 3000, 1500  
18.  $\frac{5}{6}$   
19.  
20.



## TUESDAY



1. (4,5)  
2. 58  
3. 2965  
4. 3, 30  
5.  $4\frac{1}{4}$   
6. 16  
7. 1040  
8. 2  
9. 1  
10.  $240^\circ$   
11. 12  
12. 5184

13. 3920  
14. 11 min  
15. 7000  
16. 1 am  
17. 1500  
18.  $9\frac{4}{9}$   
19. 1 150 000  
20. 0.97

## WEDNESDAY

1. 300, 375, 450  
2. 1500  
3. 29.06  
4. 10 004  
5. 4  
6.  $45 \times 500 = 22 500$   
7. 19.0  
8. 8  
9. 3400  
10. 110  
11.  $60^\circ$  at A, B and C.  
12. 124  
13. rectangular based pyramid  
14.  $\times 1000$   
15.  $\frac{2}{4} = \frac{1}{2} = 0.5$   
16. \$31.25  
17. double 49 and double the answer.  
18. August  
19. February  
20. May, June, July, August

## THURSDAY

- |         | M  | T  | W  | T  | F  | S |
|---------|----|----|----|----|----|---|
| Sales   | 14 | 13 | 6  | 43 | 24 | 0 |
| Balance | 86 | 73 | 67 | 24 | 0  | 0 |
1.  
2.  $2\frac{2}{5}$   
3. 28  
4. 10 004  
5. 7993  
6.  $\times 1000$   
7. 96  
8. 40 000  
9. 48  
10. a, b   
11. \$99  
12. 455  
13. 6300  
14.   
15. 2 pm  
16. 5.4  
17. 9  
18. 79 900  
19.  $\frac{2}{6}$  or  $\frac{1}{3}$   
20. 1.01

## PROBLEM-SOLVING

### Monday

1.   
2. 20

### Tuesday

1.  $18 \text{ m}^2$   
2. \$900  
Wednesday  
1. \$1.30  
2. 4





# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

Thursday


- \$24
- \$3.10

### FRIDAY REVIEW

- 40 950
- false
- 0.11
- 6
- $\frac{1}{4}$ , 25, 25
- 5340
- 4, 40
- 800 000
- 72
- double 72, and double the answer
- 10 000
- 48
- $\frac{27}{6}$
- 8000
- $6\frac{1}{4}$
- 
- 6 am
- 3 m
- 9 minutes 
- 15 t
- 4350.85
- 
- 0.5
- February
- August

WEEK 21 – pages 62–64

### MONDAY

- 5
- $2\frac{1}{3}$  or  $\frac{7}{3}$
- 100 001
- 450
- $3\frac{2}{5}$
- 0.3
- 10
- 9101
- $5\frac{3}{4}$
- 8
- 0.0404
- 0.15
- $-7^\circ\text{C}$
- 10 000
- $54 \div 9 = 6$ ,  
 $54 \div 6 = 9$ ,  
 $6 \times 9 = 54$ ,  
 $9 \times 6 = 54$
- 7000
- square base pyramid
- 18
- 9 999 999
- 

### TUESDAY


- Saturday
- 15
- $\frac{3}{4}$
- 6
- 35
- $12\text{ m}^2$

- 30 000
- 8, -12
- 2
- sector
- 2.7
- 6
- 100 101
- 1000
- quadrant
- $\frac{8}{3}$
- $1.5 \times 3 = 4.5\text{ m}$
- $1200\text{ m}^2$
- 500
- 700

### WEDNESDAY

- c, d
- C
- 4.2
- 14
- 4.21
- 1800
- 7
- 6
- 12
- $5 + [50 \div 5]$   
 $= 5 + 10$   
 $= 15$
- 380
- \$1170
- 8, 12, 6
- 36
- $1\frac{2}{3}$
- triangular pyramid
- no
- $7 \times 7 = 49$
- $40 \div 5$
- 17

### THURSDAY

- c, d
- 100 004
- Teacher check
- 30
- 8
- 7
- 5, -2
- 0.20
- $\frac{5}{3}$  or  $1\frac{2}{3}$
- 12 km
- 6
- 1
- $\frac{3}{10}$
- 200
- 235
- 99 990
- 
- 17
- 4.5
- 7500

- 0.29
- 2.9
- 0.029
- $2\frac{9}{10}$
- $\frac{29}{1000}$
- $\frac{29}{100}$

### PROBLEM-SOLVING

Monday

- 60
- 16 m

Tuesday

- 8
- $22\text{ m}^2$


Wednesday

- 4
- 80

Thursday

- 36
- 625

### FRIDAY REVIEW

- 25
- 7
- $3\frac{1}{5}$
- 0.12
- 21
- $1\frac{9}{10}$  or  $\frac{19}{10}$
- 3.12
- \$3380
- 54
- $8 \times 9 = 72$ ,  
or  $9 \times 8 = 72$ ,  
 $72 \div 9 = 8$   
or  $72 \div 8 = 9$
- $\frac{2}{5}$
- 8
- 6
- $4 \times 8 = 32$   
or  $8 \times 4 = 32$
- 36, 3
- 89 990
- 10
- 2
- a, b
- C, D
- 6500
- 
- $81\text{ cm}^2$
- $10\text{ m}^2$
- 16 km

WEEK 22 – pages 65–67

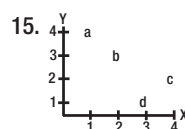
### MONDAY

- 14 000
- 100 001
- 8.5
- 0.01
- 1
- $3\frac{1}{5}$
- 30
- 8
- 63.90
- 0.40
- 65 000
- 49.5
- $A = \frac{6}{20}$ ,  $B = \frac{15}{50}$ ,  $C = \frac{3}{10}$
- 98
- 160 000
- 30
- triangular prism
- $4\frac{3}{5}$

- 1200
- 28

### TUESDAY

- 21 000
- 29 July
- 9
- 32 025
- 25
- $5\frac{1}{3}$
- 0.30
- $10 \times 10 \times 10$   
 $= 1000\text{ cm}^3$
- 28
- 58
- 198
- 1
- 8
- $-5^\circ\text{C}$




- 31
- 60
- 100
- 1.0
- 8

### WEDNESDAY

- 5
- 100 003
- 12
- 12
- 0.057
- 3, 7
- 1 000 000
- $30^\circ$
- false
- 3
- $4\frac{1}{4}$
- 1
- 60
- 5000
- 0.7
- 40 000
- 11
- 0000
- 1000
- 1450

### THURSDAY

- $5 \times 10 \times 2 \times 100\text{ cm}^2$
- 36
- 80%
- 40
- 0.70
- \$1510
- 60
- 8
- 1400
- 
- 12
- true
- $260^\circ$
- 81

- 9.30 pm
- 1000
- 60
- 9
- 0.333



### PROBLEM-SOLVING

Monday

- 4800
- 1200, 2400


Tuesday

- 20, 2
- 750


Wednesday

- 7
- 3.5

Thursday


- 
- 20

### FRIDAY REVIEW

- 18 000
- 100 005
- 125
- 1
- 100
- 94
- 4, 2
- 40
- 1 000 000
- $-7^\circ\text{C}$
- 0.999
- 4, 7, 2
- 10
- true
- 16, 128
- 39
- 1770
- 16
- 5
- 7500
- 1000
- 8 m
- 5.30 pm
- 18
- 

WEEK 23 – pages 68–70

### MONDAY

- 2 pm
- 600
- 5
- 4.4
- 0.05, 0.005
- 1 000 002
- 25 000
- 0.02
- 0.014
- 
- 300 000
- 125
- 14 km
- \$40.55
- 37

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

16. 8
17.  $80^\circ$
18. 3
19. 7, 1
20. 1.00 am

## TUESDAY

1. 62
2. 75
3.  $3\frac{2}{3}$
4. 0.038
5. 0.01, 0.002
6. 64
7. 17
8. 100
9.  $5\frac{4}{5}$
10. pentagonal pyramid
11. 54
12. 4.75
13. 9990
14. 0.642
15. 1 in 8 or 0.125
16. 50
17.  $\longrightarrow$
18. 37
19. 96
20. yes

## WEDNESDAY

1. 61
2. 100 001
3.  $120^\circ$ ,  $60^\circ$
4. 0.08, 0.009
5. 900 000
6. 400 km, 410 km
7. 8.5
8.  $2\frac{2}{3}$
9. 0.04
10. 150
11. 45
12. 145
13.  $\times 1000$
14. 0.999
15. 15 000
16. 129
17. 100
18. 19
19. 6.30
20. 4

## THURSDAY

1. 61
2.  $7\frac{2}{5}$
3.  $\text{€}$
4. 8
5. 9090
6. 80%
7. 3
8. 1.09 pm or 1309
9. 2
10. 6700
11. 1055
12. 80
13.  $2\frac{1}{3}$
14. pentagonal prism
15. 9
16. \$30 000

17. 7, 2
18. 72
19. 45 000
20. 0.09, 0.9, 0.99, 9.09, 9.9, 9.99

## PROBLEM-SOLVING

- Monday
1. 3, 11
  2. 5, 5
- Tuesday
1. 20%
  2. 750 g flour for \$3.30
- Wednesday
1.  $35^\circ$
  2. 2% of 50
- Thursday
1.

	blue	pink	yellow	Total
A	$\frac{5}{10}$	$\frac{5}{10}$	0	1
B	$\frac{3}{6}$	$\frac{2}{6}$	$\frac{1}{6}$	1

## FRIDAY REVIEW

1. 0.13
2. 154
3. 4000 L
4. 3
5. 20
6. 50 000
7. 372
8. 0.7, 0.002
9. 05
10. 95
11. 12
12. \$50 000
13. pentagonal prism
14. 20%
15. 27
16. 0.02, 0.03, 0.2, 0.23, 0.3, 0.33, 2.03, 2.3
17. 1.10 am
18. 12
19. 61
20. 7 m
21. Q
22.  $4\frac{3}{4}$
23. 4895
24. 0.125
25. 1 in 4 or 25%

## WEEK 24 – pages 71–73

### MONDAY

1. Saturday
2. 15
3. 20
4.  $\frac{2}{8}$  or  $\frac{1}{4}$
5. 1500
6. 0.001
7. 28 798
8. 100 000
9. 7, 1, 7
10. 80
11. 24 km
12. 230 000
13. 10, 10

14. 25
15. 1700
16. 200
17.  $\frac{4}{5}$
18.  $2\frac{1}{8}$
19. 1625
20. \$975

## TUESDAY

1. 12 000
2. 289
3. 0.389
4. 90 000
5. 132
6. 10 350
7. 11
8. 60
9. 0.999

10. G
11. 12 000
12. 18 999
13.  $\frac{2}{3}$
14. 0.121
15. 203, 203
16.  $3 \times 185 = 555$
17.  $18 \div 3$
18. pentagon
19. \$7.70
20. 3

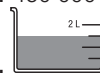
## WEDNESDAY

1. \$72 000
2.  $6\frac{2}{4}$  or  $6\frac{1}{2}$
3. 0.002
4. 1000
5. 100 000
6. even
7. 0.99
8. A = 4, B = 12
9. 91 584
10. 02
11. 8750
12. 140
13. 20
14. 812 210
15. 120
16. 800 g, 1.2 kg
17. 8.2
18.  $\frac{31}{4}$
19. 790 000
20. 26

## THURSDAY

1. Saturday
2. 0.98
3. 45, 450
4. 0.5
5. 3000
6. 8
7. 38 795
8. \$90 000
9. 39.1
10.  $140^\circ$
11.  $\frac{4}{8}$  or  $\frac{1}{2}$
12. \$1.60
13. 10

14. 42
15. 87
16. 49
17. 5:07
18. 2 000 000, 1 999 500
19. 450 000



20.

## PROBLEM-SOLVING

- Monday
1. 75
  2. 12, 4
- Tuesday
1. B, A, C
  2. Green (AB)
- Wednesday
1.  $-2^\circ$
  2. \$1175
- Thursday
1. \$2.25
  2.  $3^\circ\text{C}$

## FRIDAY REVIEW

1. 70
2. 6
3. 0.173
4. \$240 000
5. 25
6. 7
7. 8.8
8. 6th
9. 2125
10. 100 000
11. 6.5
12. 20 000
13. 500
14. 1000
15. 2 100 000, 2 097 000
16. 117
17. 26
18. 0.96
19. 3.09
- 20.
21. 21
22. hexagon
23. 32 m<sup>2</sup>
24. 4, 52
25.  $\frac{2}{8}$  or  $\frac{1}{4}$  or 0.25 or 25%

## WEEK 25 – pages 74–76

### MONDAY

1. 11 000
2. 7
3. 5100 mm
4. 145
5.  $5\frac{2}{3}$
6. 0.042
7. 176
8. 35 496
9. 12 faces
10. no
11. 22.4
12. 3
13. 5
14. 007

15. 57 450
16. 49
17. rectangle
18. spring
19. 13 hrs 40 min.
20.  $20 + 3 + 0.2 + 0.05$

## TUESDAY

1. 373
2. 13
3.  $7\frac{1}{3}$
4. 257
5. 25
6. 72
7. 218
8. 9000
- 9.
10. 179 900
11. 0.009

12. 15, 15
13. hexagonal pyramid
14. 0.9
15. true
16. 100
17. 2.15 pm
18. 49



## WEDNESDAY

1. 0.009
2. 9
3. 03
4. 44
5.  $63 \div 9 = 7$ ,  $63 \div 7 = 9$  or  $7 \times 9 = 63$ ,  $9 \times 7 = 63$
6. 29 899
7. 292
8. 18 faces
9.  $1\frac{3}{4}$
10.  $150^\circ$
11. 11.7
12. 24 cm
13. 65
14. equilateral
15. 10
16. 156 km
17. 0
18. 7.2
19. 0645 or 6.45 am
20. 2

## THURSDAY

1. Monday
2.  $45^\circ$ , acute
3. 10
4.  $3\frac{2}{3}$

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

- true
- 9500
- move decimal point left 1 place
- false
- $\frac{5}{100}$ ,  $0.1$ ,  $\frac{1}{4}$ ,  $0.3$ ,  $\frac{1}{2}$
- $60^\circ$
- 440 004
- 6, 5
- 5
- pentagonal prism
- 9
- 1207
- $\frac{1}{3}$
- 7, 7, 490, 42, 532
- 0.33
- 16

## PROBLEM-SOLVING

Monday

- \$320
- \$6.40

Tuesday

- $\frac{14}{50}$  or  $\frac{7}{25}$

- $\frac{11}{50}$

Wednesday

- 4, 8, 12, 20, 24, 28, 32, 36, 40, 44, 48, 5, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60

Matching multiples:  
20, 40

- 60

Thursday

- A
- B

## FRIDAY REVIEW

- $1\frac{3}{4}$
- move the decimal point one place to the left
- 100
- 274
- 2.5 cm
- 96
- \$29.20
- 8, 8
- 0.008
- 2.5
- false
- 390 899
- 9
- 5.6, 0.56
- 19
- 19.2
- 7
- 1
- 5
- 20 cm
- 13 hrs 40 mins
- $a = 60^\circ$ ,  $b = 60^\circ$
- 12.55 pm
- 1610 or 4.10 pm
- H, T

## WEEK 26 – pages 77-79

### MONDAY

- 56
- 8th
- 7
- 17.5 or  $17\frac{1}{2}$
- 0.998
- 453
- 6
- 37 500
- 12 km
- 16 400
- $3\frac{1}{4}$
- 105
- A = 14, B = 21
- 600
- 4.7
- 1809
- 6
- 18.

	green	pink	yellow	purple	Total
A	$\frac{4}{10}$	$\frac{5}{10}$	$\frac{1}{10}$	X	1
B	$\frac{3}{8}$	$\frac{2}{8}$	$\frac{1}{8}$	X	1
C	$\frac{3}{8}$	$\frac{2}{8}$	$\frac{2}{8}$	$\frac{1}{8}$	1

- 2, 2, 20
- 2

### TUESDAY

- 19
- 37
- 441
- \$28
- 0.44
- 125 mm
- 12
- quadrant
- 6, 6, 60
- 216
- 72
- $a = 150^\circ$ ,  $b = 150^\circ$
- $10\frac{1}{5}$
- 750 g + 675 g
- 991
- 11
- 17
- 14 L
- 0.002
- C

### WEDNESDAY

- 11
- 56
- 12
- 2, 7
- 87 000
- $24 \div 8 = 3$
- 100
- $56 \text{ m}^2$
- $7\frac{1}{4}$
- 0.99
- 4 June the next year
- 9 km
- 2106
- 160 000
- 20.7
- E
- 45

- 36
- \$450 000
- 120

### THURSDAY

- 12
- 774
- 
- 27
- 28
- false
- 8800
- $3\frac{2}{5}$
- 0.991
- $4\frac{1}{4}$
- 24, 4
- false
- 1701
- 7
- 1000
- $25^\circ$
- 200 000
- $(80 \times 8) + (3 \times 8) = 640 + 24 = 664$
- 9 L
- 36

### PROBLEM-SOLVING

Monday

- 492, 357, 816
- 40

Tuesday

- 160
- 1600

Wednesday

- 30 L
- 3 L

Thursday

- 31 m
- 18 m

### FRIDAY REVIEW

- 23
- 1260
- 36
- 362
- 18
- 0.55
- 2
- 24
- 0.0909
- 17 600
- 8, 8, 80
- 5
- $4 \times 6 = 24$  or  $6 \times 4 = 24$
- 56
- 40 km
- 1050
- 70 000
- 890 000
- 3000
- 957 g
- 1952
- B
- $50^\circ$
- 5
- B, A, C

## WEEK 27 – pages 80-82

### MONDAY

- 5.55
- 130
- $0.08$ ,  $\frac{2}{4}$ ,  $\frac{12}{10}$ ,  $1.3$ ,  $\frac{5}{3}$
- \$17.05
- 144
- 1100
- 10 500
- \$25
- 0.25
- 201
- true
- 6
- triangle
- 34, 34
- $7\frac{7}{10}$
- $\frac{1}{4}$
- $270^\circ$ , reflex
- 10 pm
- $1000 \text{ cm}^3$
- 300 g

### TUESDAY

- $a = 3$ ,  $b = 11$
- 2, 30
- 71
- 150 000
- 1 000 000
- 24
- \$15
- 0.7
- \$400 000
- (a)  $\frac{1}{4}$ , (b)  $\frac{1}{3}$
- obtuse: a, b  
acute: c, d
- $(30 \times 8) + (9 \times 8) = 240 + 72 = 312$
- 590
- 500 km
- 3400
- 1.011
- 3
- 16.5
- 8
- false

### WEDNESDAY

- 2, 3, 5
- 8
- 100 001
- 1789
- 750
- 1270
- 30
- 6.42
- 600 000
- $\frac{1}{4}$  of the total in red,  
 $\frac{1}{3}$  of the balance in blue
- (a) B, (b) A and B
- $120^\circ$
- 5.1
- 104
- $29 \div 4 = 7 \text{ r } 1 = 7.25$
- 

- 3.017
  - 14
  - 1980
  - 21 000, 20 930
- ### THURSDAY
- 11.20 pm
  - 211 000
  - 1200
  - 890
  - 0, -8, 12
  - 3, 09, 003
  - 1100
  - $41 \div 5 = 8 \text{ r } 1 = 8.2$
  - 10 am
  - 9.5
  - $24 \div 4 = 6$
  - $2 \times 3 \times 7$
  - 3000
  - $\infty$
  - 60
  - 6500
  - 162
  - 2, -1, 0, 2, 3
  - 1.2
  - 60

### PROBLEM-SOLVING

Monday

- 30
- 28

Tuesday

- 0.5
- 4000

Wednesday

- 10, 4
- 6, 8

Thursday

- 30
- 300 km

### FRIDAY REVIEW

- 7, 11
- 20
- 7.39
- 19
- 2100, 2030
- 5, -7, 3
- 7500
- 499
- $5\frac{4}{5}$
- 3
- 80
- 128
- 2386
- 33
- 80
- 108
- 8.06
- 1.024
- 4.027
- $240^\circ$
- 
- 1
- 600
- $\frac{6}{18}$  or  $\frac{1}{3}$
- $\frac{2}{8}$  or  $\frac{1}{4}$

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

## WEEK 28 – pages 83–85



### MONDAY

- 4
- 4.3
- 1550
- 0.3
- 909 999
- 1
- 991
- 27 000
- 33 894
- 54
- 2, 2
- 200
- 753 142
- 30 000
- triangular prism
- 600 g
- 4.199
- 0.08
- \$22, \$12
- \$26.50

### TUESDAY

- 180 km/h
- 4.75
- 5.3
- 30
- 8.25
- 3 cm
- 17 002
- 4 m<sup>2</sup>
- 15 000
- 45°
- \$700
- 2, 4, 5, 10
- 3
- hexagon, pentagon
- 190 000
- \$19.75
- \$12.30
- 39 597
- 45
- 2.5

### WEDNESDAY

- 61
- 
- 70
- 7
- 90
- 1950
- 26 397
- 72 km
- 0.005
- 12
- 
- 2.1
- $\frac{1}{8}$  or 0.125
- 330°
- 55 000
- 9
- \$26.25
- 6 pm

19. 11

20.  $\frac{41}{5}$

### THURSDAY

- 25
- 100 001
- 135°
- 39 899
- true
- 75
- 3, 09, 003
- 3.715 L or 3715 mL
- 1000
- 67 500 000
- 10
- 1
- 0.625
- $\frac{2}{3}$
- 890 000
- $\frac{5}{2}, 1.6, 1\frac{1}{4}, \frac{5}{5}, \frac{13}{100}, 8\%$
- 24
- 800
- 2112
- 5.30 pm

### PROBLEM-SOLVING

Monday

- 7, 7, 8
- 800

Tuesday

- 20
- A

Wednesday

- \$315
- \$408

Thursday



- 2800
- \$26

### FRIDAY REVIEW

- 24
- \$20.30
- 32
- 2350
- \$6.50
- 2, 4, 8, 16
- 30
- \$150 000
- 9.5
- 780 000
- 35
- 3150
- 9
- 0.715
- 2.9
- 2712
- $\frac{5}{4}, 1.1, 10\%, 0.04$
- 007
- 2.045
- 9
- 5
- 10.5
- 9.50 pm
- 0.125
- 5 or 6

## WEEK 29 – pages 86–88


### MONDAY

- Thursday
- 
- 0.33
- 5000 + 400 + 50 + 4
- 28
- 6
- 27
- 
- \$12.50
- 1700
- 2, 3, 4, 6, 8, 12
- 84
- 1212
- 85
- 100
- 7
- 2
- 12 am
- 41
- 0.996

### TUESDAY

- \$4.50
- \$6.25
- 10.4
- 1000
- 65 475
- 90
- 0.99
- 5
- $\frac{2}{3}$
- 20%
- 4000
- 145 000
- 80 998
- 5960
- 2
- 40
- 10
- 1000
- 2000
- 4000


### WEDNESDAY

- \$5
- 
- 180
- 99
- a = 80°, b = 100°
- \$2.50
- 1 010 110
- 22
- 25
- 33
- 4000
- 480 000
- 2000
- 11 pm
- A
- $\frac{1}{2}, 50\%$

- 17
- 80, 80
- 42

20. isosceles – B,  
equilateral – A

### THURSDAY

- \$5.50
- 111
- 8
- 135°
- 20
- 1394
- 32
- 
- 10 + 7 + 0.2 + 0.08
- 0.41
- 60
- $\frac{1}{4}$
- 5000
- 2
- 1500
- 1 000 100
- 8th
- 2.15 pm
- 28 496
- scalene isosceles equilateral

### PROBLEM-SOLVING

Monday

- A
- A = 25% B = 50%  
C = 10%

Tuesday

- 10
- 50

Wednesday

- 12
- \$600

Thursday

- 
- 1.5 kg

### FRIDAY REVIEW

- \$10
- 10
- 3
- 0.998
- 0.932
- 912
- 22
- $3\frac{2}{3}$
- 210
- 4000
- 5, 50
- 41
- 100
- 5
- 14  $\frac{1}{4}, 0.5, \frac{8}{10}$
- 6300
- true
- 1 000 010

- 2
- 14.4
- C
- Reflex – b  
Right – c  
Acute – a
- 270°
- 25%


## WEEK 30 – pages 89–91

### MONDAY

- 18, 22
- 0.58
- 6
- 100 004
- 2500
- 99 987
- true
- 1100
- rectangle
- 40
- 40, 40, 4
- 10
- 12
- 2.1
- 3, 7
- 12
- 120

- $\sqrt{V}$
- 200 000
- ÷

### TUESDAY

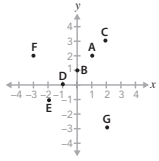
- 36 ÷ 6
- 20
- 1500
- 0.6
- 
- 6
- 1 000 001
- 100
- 21, 26
- 2000 or 8 pm
- \$22.75
- 5
- 7500
- 2
- 45
- 10 000
- 6 am
- 2
- <100 km/h
- 225 km

### WEDNESDAY

- 18 000
- 25, 25
- 4
- 19
- 54 km
- 4, 40, 40, 4
- 1000
- 1200
- $\frac{2}{3}$
- 34 825
- 30
- 0.99

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

13. 0.8  
14. \$19  
15.



16. 10 500  
17.  $90^\circ$   
18. 0200  
19. 42  
20. 72

### THURSDAY

1. 39
2. See Wed Q15
3. 1500
4. 0.993
5. 600
6. 4 750 000
7. 18
8. 12
9. 30
10. 40%
11. 91
12. 100 010
13. 20
14. B and D
15. 1.012
16. 1989
17. 27
18. 7500
19. 20 000 m<sup>2</sup>
20. 2 ha

### PROBLEM-SOLVING

Monday

1.  $\frac{8}{20}$  or  $\frac{2}{5}$
2. 25, 35

Tuesday

1. \$12
2. 4320 g

Wednesday

1. \$68
- 2.

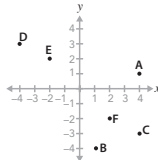
Thursday

1. 50%
2. 50%

### FRIDAY REVIEW

1. 15
2. 3.52
3. 89 999
4. 2000
5. 05, 5
6. 1300
7. 24 825
8. 23, 28
9. 7000
10. 0.989
11. 12
12. 15
13. 39 km
14.  $\div$
15. 0.4
16. 275
17. 10 000
18. 3 m<sup>3</sup>

19. 4500  
20.



21. A = 4, 1  
B = 1, -4  
22. 0.3  
23. 12.30 pm  
24. 1 pm, 1.30 pm  
25. 175 km

### WEEK 31 – pages 92–94

#### MONDAY

1. 46
2. 801
- 3.
4. 064
5. 399 958
- 6.
7. 50 000
8. 9
9. 11
10. 70
11. 0.725
12. 812
13. 4.0
14. 8, 12
- 15.
16. 8000
17. 4500
18. 1000
19. 50
20. (a)  $\frac{16}{50}$  or  $\frac{8}{25}$   
(b)  $\frac{9}{50}$

#### TUESDAY

1. 60
2. 268
3. 1500
4. 22 m
5. 16.5 m<sup>2</sup>
6.  $\div$
7. 2, 4, 8, 16
- 8.
9. 20
10. 12 L
11. 1000
12. 2020
13.  $\frac{1}{3}$
14. 216
15.  $3\frac{1}{2}$
16. 25
17. 170
- 18.
19. 44%
20. 32%

#### WEDNESDAY

1. 67
2. \$400
3. 7209

4. 42  
5.  $\frac{17}{5}$   
6. hexagonal prism  
7. (a)  $120^\circ$  (b)  $60^\circ$   
8. 9  
9. Teacher check  
10. 94  
11. 63



12.   
13. 16  
14. no  
15. 3.20  
16. 17 400  
17.

18. 24  
19. 9100  
20. 1 035 000

#### THURSDAY

1. 65
2. 11
3. 7 m
4. 0.819
5. 198 997
6. 41
7. 18 km
8. \$37.50
9.  $a = 75^\circ$ ,  $b = 105^\circ$
10. 32, 112
11. true
12. 3 075 000
13. 2300
14. 3 am
15. rectangular based pyramid
16. odd
17. 17
18.  $40^\circ$
19. \$51
20. 9.2, 9.6, 9.8

### PROBLEM-SOLVING

Monday

1. B
2. 350 m<sup>2</sup>

Tuesday

1. \$42.50
2. \$5.80

Wednesday

1. A
2. A = 25%, B = 40%  
C = 50%

Thursday

1. 2.80, 17
2. 21

### FRIDAY REVIEW

1. 2.91
2. 1 037 000
3. 299.4
4. true
5. 18
6. 18
7. 45
8. 21
9. 0.505
10. 100
11. 6309

12. 24  
13. 525  
14. 15



15.   
16. 4300  
17. A = 2, 5 B = -2, -4  
18. 4040  
19. 2, 350  
20. 250  
21. 40  
22. 50%  
23. 75%  
24. 1970, 2000  
25. 1990

### WEEK 32 – pages 95–97

#### MONDAY

1. 1100 m
2. 20
3. 44
4. 188 994
5. 16 000
6. 18 m<sup>2</sup>
7. 1 100 000
8. 7007
9. 10 m
10. \$10
11. 1.201
12. 275
13.  $45^\circ$
14.  $1\frac{1}{4}$
15. 37
16. 0.09
- 17.
18. 859
19. 278
- 20.

#### TUESDAY

1. \$45
2. 1 000 001
3. 10 000
4. 80
5.  $\div$
6. 268 798
7. 1 000 100
8. 5.5
9. triangular pyramid
10. \$84
11. \$59.50
12. 4 sharks shaded
13. \$84
14. \$2400
15. 0.07, 0.17, 0.7, 7, 7.17
16. 30 000, 29 400
17. 5, 05
18. 1 am
19.  $\frac{8}{5} = 1\frac{3}{5}$
20. 190 m

#### WEDNESDAY

1. 57
2. 9, 2
3. 45 000

4. \$405  
5. 2.05  
6. 81 m<sup>2</sup>  
7. 32 km  
8. 2  
9.  $\frac{4}{3}, 1\frac{1}{3}$   
10. 2  
11. 5 doughnuts for \$2  
12. A = (1, 1), B = (2, 2)  
C = (3, 3), D = (4, 4)  
E = (-1, 1), F = (-2, 2)  
G = (-3, 3), H = (-4, 4)

13. 171  
14. 575  
15. \$19.50  
16. even  
17. (c) 1.75 m  
18.  $3\frac{3}{5}$   
19. 12 am  
20. 400

### THURSDAY

1. 17 100
2. 63 000, 62 100
- 3.
4. 4.9
5. 42
6. 55
7. 8
8. 1, -5, 0
9. 18
10. they are the same
11. 33 m
12. Teacher check
13. 2
14.  $\frac{2}{12}$  or  $\frac{1}{6}$
15. false
16. \$1300
17. 8, 9
18. 5, 8
19. 0.1
20. 1200 mL

### PROBLEM-SOLVING

Monday

1. 2
2. 3

Tuesday

- 1.

- 2.

Wednesday

1. 4
2. \$18

Thursday

1. 28
2. 9600

### FRIDAY REVIEW

1. 210
2. 28 000
3. 27 300
4.  $\frac{6}{4}, 1\frac{1}{2}$
5. 63
6.  $y > x$
7. \$40.50

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

8. 0.1
9. 2
10. false
11. 58
12.  $\frac{4}{5}$
13. 45
14. 19
15. \$1100
16. even
17. 8 am
18. 64
19. A = (2,1), B = (2,-3)  
C = (-2,-3), D = (-3,3)
20. \$12.50
21. 12.01 am
22. 4.070 kg
23. 12, 7
24. 24 m
25. 0.25

## WEEK 33 – pages 98–100

### MONDAY

1. 5500
2. 139
3.  $\frac{40}{9}$
4. 8.02
5. 9992
6. 18000
7. (a) T  
(b) F  
(c) F
8. 43
9. (A,D), (B,C)
10. 4
11. 24
12. 12 hrs 28 min.
13.  $0.1, \frac{1}{4}, \frac{2}{5}, \frac{6}{8}, 0.8, 1.1$
14. 20
15. 45
16. 6400
17.  $c = 100^\circ, d = 80^\circ$
18. 460
19. 2, 03, 23
20. 3600, 3510

### TUESDAY

1. 55 mL
2. 68
3. 5, 7
4. 1 000 004
5. square based pyramid
6. (H) (H)
7. 600 000
8. 0.1
9. 8
10. 1
11. 4, 018, 418
12. 44 443
13. 90
14. \$80.50
15. 7
16. 200
17. 1 000 000 L
18. 12.59 am
19. 24 m
20. 26.4 m

### WEDNESDAY

1. 42 500
2. 8, 2
3. \$5 370 000
4. 320
5.  $\frac{6}{10}$
6. 1 000 000
7. 0.01
8. 108, 12
9. 62
10. 0.7
11. 03



- 12.
13. 50 000
14. 2.546
15. 4200
16. A
17. \$58.50
18. \$25.40
19. 8500
20. A

### THURSDAY

1. 0.01
- 2.
3. move the decimal point to the left 2 places.

4.  $\frac{3}{5}$
5. 24
6. 120, 2
7. 1 110 010
8. 14.9 kL
9. 27
10. 39
11. triangular pyramid
12. 5, 4
13. 61
14. (V)
15. 260
16. 4000
17.  $3\frac{3}{8}$
18. even
19. 55
20. A = (3,1), B = (0, 3)  
C = (-2,-3), D = (2,-3)

### PROBLEM-SOLVING

- Monday
- 1.
- or
- Tuesday
1. \$20
  2. \$8.40
- Wednesday
1. A
  2. A = 75, B = 40  
C = 40
- Thursday
1. 90
  2.  $\frac{1}{10}$

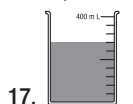
### FRIDAY REVIEW

1. 32 500
2.  $\frac{6}{10}$
3. 0.01
4. 0.02
5. 1700
6.  $7, 1\frac{3}{4}$
7. 104 892
8. 2
9. 24
10. 6
11. 40, 45
12. \$30
13.  $\frac{1}{5}, 0.21, 0.4, \frac{3}{4}$
14. 675
15. 38
16. 1 001 010
17. 270
18. 8.05 pm
19. 95
20. A = (-2,-1), B = (-1,-3)  
C = (3,1), D = (1,-3)  
E = (3,-1)
21. 81
22.  $1, 8 \text{ cm}^3$
23.  $a = 70, b = 110$
24. 1300
25.  $\frac{3}{6}$  or  $\frac{1}{2}$  or 0.5 or 50%

## WEEK 34 – pages 101–103

### MONDAY

1. 1050
- 2.
3. \$20
4. 4
5. 0.25
6. 37
7. 441
8. 22.5
9. 80, 88, 96, 104
10. 24
11. \$4
12. false
13. (a) a, c (b) b
14. 1900
15. 3, 3, 3.75
16.  $\frac{5}{3}, \frac{2}{13}$



17. 25 000 kL
18. 25 000 kL
19. E
20. 35 500

### TUESDAY

1. 1650
2. 84
3. 20
4. true
5. 801
6. 100
7. 266
8. 56

9. 1250
10. 2.4
11. 10 pm
12. \$30
13. false
14. \$22.50
15. 0.9
16. rhombus
17. 1.201
18. 9, 9
19. Amy
20. Bronte

### WEDNESDAY

1. 1350
2. 1 000 006
3. 100, 010, 909
4. 63
5. 201 992
6. 6, 18
7. 12
8. square
9. 0.01
10. 30 000, 29 400
11. 2400 m
12. 4, 40
13. 891
14. 5600
15. 72 500
16. 45
17. 9
18. 1350
19. 4 m
20. 18

### THURSDAY

1. 68, 68
2. 120
3. 8 m
4. 48 km
5. 6, 60, 60
6. 8
7. 40 000
8. 441
9. 16
10. \$630
11.  $12 \times 9 = 110$
12. 4000, 3920
13. false
14. \$110
15. 150
16. 1, 10
17. 62 500
18. 

G	G
B	R
R	B

B	B
R	G
G	R
19. 6.0
20. 0.909

### PROBLEM-SOLVING

- Monday
1. 14 March, 5 am
  2. 30 May, 9.30 am
- Tuesday
1. 5 m
  2. 5 m
- Wednesday
1. (a) 50, (b) 35%
  2. 15%

### Thursday

1. B
2. A = 66.6% B = 62.5%  
C = 50%

### FRIDAY REVIEW

1. 44, 44
2. 9
3. 2400
4. 10
5. 21
6. 20.01
7. 48
8. 88
9. 3000
10. 801
11. 6, 3, 75, 75
12. \$900
13. 500 000
14. 6
15. false
16. true
17. odd
18. \$28.50
19. 12
20. 92 500
21. B
22. 8
23. 0.707
24. 2700 mm
25. Emma – 70%  
Bronte – 100%  
Amy – 40%

## WEEK 35 – pages 104–106

### MONDAY

1. 37
  2. 5 500 000
  3. 60
  4. false
  5. \$26
  6. 64
  7. 414 139
  8. 1
  9. 16 cm<sup>2</sup>
  10. 6
  11. \$375
  12. 6
  13.  $(70 \times 8) + (5 \times 8) = 560 + 40 = 600$
  14. 1.201
  15. 0.001 g
  16.  $5, \frac{12}{5}, 2, \frac{4}{3}, 1.13, 1.1, 0.09, 0.03$
  17. 505 000
  18. 0.001 L
  19. 4
  20. 26 m
- TUESDAY
1. 44
  2. 7.1
  - 3.
  4. \$18
  5. 0.4
  6.  $50 \times 8 = 400$
  7. 30

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

- 3.08
- 1
- 650 g + 950 g
- 14
- 0
- 58
- 180
- 97 500
- 0.2
- Teacher check
- 8
- 6B
- February, October, November

## WEDNESDAY

- 1450 L
- \$27
- \$119.70
- 21 400
- 6
- $6 \times 4$
- \$39.60
- 4
- 531
- 
- false
- 9300
- odd
- 17
- 
- 8
- 7.5 L
- 002
- $\frac{17}{8}, 2\frac{1}{8}$
- $12 \text{ m}^3$

## THURSDAY

- 200.014
- 141
- $\text{E}\overline{\text{T}}$
- 19
- 1.09
- 40
- \$30
- 
- 17 102
- 15 575
- 54
- $90^\circ$
- 16 km
- $16 \text{ m}^3$
- 6800
- 1060
- 0.6
- 100
- $60^\circ$
- a,  $30^\circ$

## PROBLEM-SOLVING

Monday

- 5, 10, 20, 40
  - 10, 100, 1000, 10 000
- Tuesday
- \$120
  - \$30

Wednesday

- 3200
- $\frac{2}{8}$  or  $\frac{1}{4}$

Thursday

- 12 and 8
- 6 and 9

## FRIDAY REVIEW

- 164
- 3 250 000
- 6
- 74
- 48
- 20 575
- 275
- 40
- 
- 24
- $\frac{14}{8}$
- 15
- 0.77
- \$19.95
- 7.9
- 
- 1.5 kg
- 1250
- 0.5
- 7200
- 
- 3, 20
- 0.001 g
- 2.009
- May, June, July, August

## WEEK 36 – pages 107-109

## MONDAY

- $(420 \times 10) - 420$
- 08
- 5.38
- $5\frac{2}{3}$
- 4, 3
- 0.1666
- 27 000
- 4 295 000
- 200 mm
- \$4.50
- 5
- 25
- 0
- 9
- triangular pyramid
- 7, 37, 19
- 4.002
- \$35
- 15 min
- 12.05

## TUESDAY

- $(37 \times 10) - 37$
- 206
- 0.88
- 3
- 0.177
- true

- 70
- 42 000
- 432
- $a = 130, b = 50$
- 3, -2, 3, 4, 7



- 0.999
- \$18
- q
- 200
- 3, 7
- 0.45
- 1675
- $90^\circ$

## WEDNESDAY

- 63
- 0.965
- 12
- 125
- 

- 6.1
- 0.502
- 8
- 115
- $\frac{7}{10}$
- 5
- 7007
- 702
- (a) 1 (b) 3 (c) 2
- 0.001
- $\frac{47}{9}$
- \$4.40
- true
- $48 \text{ m}^2$
- 34 m

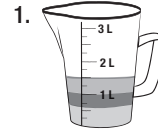
## THURSDAY

- 29
- \$27
- 1.0
- 3.75
- 0.512
- \$49.95
- 999 899
- 0.990
- 0.025
- false
- 

- 4009
- 2, 9, 792
- 4700
- 1100
- $30 \text{ m}^3$
- 1 000 003
- 56
- $28 \text{ m}^2$
- $72 \text{ m}^2$

## PROBLEM-SOLVING

Monday



- 120

Tuesday

- F
- E

Wednesday

- 64%
- 30 m

Thursday

- $\frac{7}{25}$
- $225 \text{ m}^2$

## FRIDAY REVIEW

- 57
- 0.4
- 29.6
- 3 095 000
- 145
- 25
- 278
- 20
- 11 500
- $\frac{44}{5}$
- 68, 1
- \$24
- 0.99
- 3, 2, 1, -1, -2, -4
- 270
- 4
- \$12
- 2, 4
- 0.002
- 2003
- 

- 15 min
- $16 \text{ m}^2$
- $48 \text{ m}^2$
- $\frac{3}{6}$  or  $\frac{1}{2}$  or 0.5 or 50%

## WEEK 37 – pages 110-112

## MONDAY

- 
- 17.50
- $\frac{1}{4}, 25, 25$
- \$15 000
- 64
- 62
- 92
- 11
- 4
- 0.35
- 10 000 000
- double 60, then double that answer

- 0.970
- $\frac{13}{7} = 1\frac{6}{7}$
- 1
- 40 000
- 
- 3700
- 8050
- 7

## TUESDAY

- \$32
- 92
- 2
- 340
- 240 000
- 3.36 pm
- 7070
- octagonal
- 1.0
- $7\frac{2}{5}$
- 
- 18 000
- 200 kg
- \$4.50
- 27
- 111
- $\frac{1}{4}, \frac{1}{4}$
- $\frac{8}{7}, 1\frac{1}{7}$
- 7
- 20

## WEDNESDAY

- 17
- \$4.60
- 300.040
- 12
- 3.099 L, 4000 L, 4.01 L, 0.5 ML
- $\frac{3}{4}$
- 6.004
- pentagonal prism
- 3500
- 60
- 
- 18 000
- 3, 7
- 2200
- 0.6
- 0.910
- \$60.05
- 10
- trapezium
- $70^\circ, 70^\circ$

## THURSDAY

- 
- 11
- 
- 767
- $25^\circ$
- 4.5
- 2971
- $8\frac{1}{4}$
- 3

# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

- 75, 75
- 9
- 0.301
- 4, 47
- 0.50
- \$24
- 0.35
- 206 km
- 4.25 pm
- 575
- 0.01** **0.1** **1.1** **0.7**

## PROBLEM-SOLVING

- Monday
- \$42.50
  - 6.4 kg
- Tuesday
- 23:05, 23:45, 00:05
  - 11:25 pm
- Wednesday
- 75
  - 240
- Thursday
- 1000, 50, 200, 400
  - 1000, 100, 50, 2.5

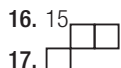
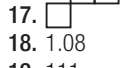
## FRIDAY REVIEW

- \$5
- 30 000
- 1500
- $\frac{6}{8}$  or  $\frac{3}{4}$ , 75, 75
- 58.05
- 3
- 7989
- $8\frac{3}{5}$
- 21
- 4
- 25
- $9 \times 8 = 73$
- $\frac{9}{6}$ ,  $1\frac{3}{6}$  or  $1\frac{1}{2}$
- A = 3 are coloured, B = 9 are coloured
- 8
- \$19 000
- $36 \text{ m}^3$
- 1925
- 1010 L
- 6.5
- (a) T, (b) F, (c) F
- C
- 2005
- $128^\circ$
- 55%

## WEEK 38 – pages 113-115

### MONDAY

- \$175
- 625
- $a = 115^\circ$ ,  $b = 65^\circ$
- 50
- $\frac{12}{8} = 1\frac{4}{8}$  or  $1\frac{1}{2}$
- 2900
- 40
- 398
- 2000
- 48

- rhombus
- $10\frac{2}{9}$
- 10 000
- 0.9
- 8
- 15 
- 
- 1.08
- 111
- \$5.99

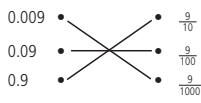
## TUESDAY

- 5 hrs 20 min.
- C, B, A
- 6020
- 9.01
- 61
- 1000
- 18.20



- $a = 145^\circ$
- $\frac{11}{6} = 1\frac{5}{6}$
- 32
- 8
- 213.1
- 775
- 10%
- 365
- 1090
- \$17.50
- 120
- \$450

## WEDNESDAY

- $0.009$  
- 470
- \$5.80
- 1.18
- 6
- 80 470
- 200, 888, 352
- 325
- 2.050
- 8, 8, 80
- 52
- 1
- 0.9
- 11
- 7500
- 2.345
- \$22 each
- 28
- 31
- \$2.80

## THURSDAY

- \$11.25
- 0
- 1750 m
- 1700
- 35
- 893 497
- 4 @ \$3

- 25%
- 56
- \$4.10
- \$10
- 12 pm
- 27
- 1000
- 10 000
- \$1.99
- 210
- \$1920
- 0.99
- 9.01

## PROBLEM-SOLVING

- Monday
- 15.0
  - 8, 25
- Tuesday
- 220 m
  - $P = 34 \text{ cm}$ ,  $A = 33 \text{ cm}^2$
- Wednesday
- \$36.50
  - 1 hour 35 mins
- Thursday
- 210
  - $4 \times 6 \times 8 \times 9 = 1728$

## FRIDAY REVIEW

- \$21.25
- 7
- 4 @ \$5
- 200
- 31
- 2100
- 10.01
- 4, 4, 40
- 530
- \$11.50
- 10 000
- 720
- $\frac{31}{7}$
- 10.383
- \$8.99
- 3
- \$10.99
- 11
- 12
- 29
- 3
- 1550
- 1 am
- 12.5%
- (a) No  
(b) 2016 – 70 000,  
2017 – 70 000


## WEEK 39 – pages 116-118

### MONDAY


- 3.5
- 4.75
- 5473**
- 850
- \$6.70
- 170
- 80

- $30 \div 5$
- $36 \text{ m}^2$
- 2.95
- obtuse = A  
right = C  
acute = B
- 27
- 0.364
- 6500
- 1.6
- 9
- 800
- 28
- 18, 22, 26
- 58

## TUESDAY


- 125
- 9.9
- 8 365 000
- 6, 6, 60 
- 30
- \$8.50
- 1.27
- true
- 56
- 126
- 5
- 4.75 or  $\frac{19}{4}$
- $40 \div 5$
- $\frac{4}{5}$
- 26
- 10 minutes
- 0605
- No
- Before 6.15 am

## WEDNESDAY

- Aymee – 4  
Natasha – 3  
Kathleen – 1  
Sonja – 2
- 6250
- 158
- 1.6 
- 0.1
- $7 \times 12 = 84$
- 8.94
- 2070
- 7
- 210
- $\frac{9}{5}$ ,  $1\frac{4}{5}$
- 55
- true
- 1800
- 3
- 48
- highly suspicious of  
Con's dice.
- 700
- $\frac{1}{2}$

## THURSDAY

- 1 July
- 120

- 63
- 440
- 120
- 4.8
- 14
- 135
- true
- 698
- 750
- 1.46
- false 
- 19
- 2 070 000
- (a) 0.001, (b) 0.001
- true
- 72
- B

## PROBLEM-SOLVING

- Monday
- 45, 60, 75, 90, 105
  - Cup of sugar  
 $-1\frac{2}{3}$ , 2,  $2\frac{1}{3}$ ,  
Cup of flour  
 $-4\frac{1}{2}$ ,  $6, 7\frac{1}{2}, 9, 10\frac{1}{2}$
- Tuesday
- 1125
  - \$5625
- Wednesday
- $\frac{5}{6}$
  - \$40
- Thursday
- $\frac{1}{3}$
  - $\frac{7}{8}$

## FRIDAY REVIEW

- 1.18
- \$7.40
- 1.03
- $\frac{4}{10}$  or  $\frac{2}{5}$
- 9.25
- 25
- 66
- 95
- 9
- 800
- 71
- true



- 158
- 6, 12
- 9250
- 0.01
- $b = 150^\circ$ ,  $a = 30^\circ$
- 9**
- (a) 50 mins  
(b) 35 mins  
(c) 20 mins
- 1, 11
- 4.10 pm
- early
- 2 December, 6.30 am
- 180



# NEW WAVE MENTAL MATHS (BOOK F) – ANSWERS

WEEK 40– pages 119–120

## MONDAY

- 12.55
- 1.03
- 231 900
- 7
- 0.889
- $(1000 \times \$1) + (1000 \times \$0.99), 1000 \times \$1.99, \$2000 - (1000 \times \$0.01)$
- 12
- 20
- $< 90^\circ$
- $1000 \text{ g} \div 200 \text{ g}$
- 15 500
- 0.2
- \$55
- 5
- 4
- 40
- 2.15 pm
- 16
- $A = (3,1); B = (-1,-2); C = (1,-3); D = (-3,1)$
- Teacher check

## TUESDAY

- True
- 50
- 25
- $\frac{11}{5}, 2\frac{1}{5}$
- 2.06
- 35
- $5\frac{1}{4}$



- 
- 0.01
- 40
- 72
- 32
- 1
- rhombus
- 530
- true
- 1.4
- 10 000
- $1000 \text{ g} \div 250 \text{ g}$

## WEDNESDAY

- Saturday, Sunday
- 92
- 235
- $\times$
- 63
- 0.5
- 81
- 2500
- 58
- 

- 12.003
- 4200
- 0.1
- A
- \$363.51
- 25
- 2002
- 3 000 000
- odd
- $1000 \text{ kg} \div 20 \text{ kg}$

## THURSDAY

- 
- 1000
- 0.21
- 3 297 000
- 8000
- 3
- $a = 75^\circ, b = 105^\circ$
- 96
- 4600
- 1200
- C
- 60
- $\frac{1}{4}$
- 27
- 56
- 145
- 0.166
- 75
- 70
- 200 g

## PROBLEM-SOLVING

Monday

- 60%
- $a = 108^\circ, b = 60^\circ$

Tuesday

- $70^\circ$
- 90 000 g or 90 kg

Wednesday

- Purple
- Teacher check

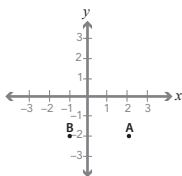
Thursday

- \$470
- 20

## FRIDAY REVIEW

- 176
- \$28
- true
- 3800
- $\frac{1}{2}$
- $\times$
- 0.391
- 0
- $3\frac{3}{4}$
- 2.03
- false
- 12
- $1\frac{3}{4}$
- 17
- $72 \div 8$
- 7.502

- 0.8
- 3.15 pm
- 61
- B
- b
- C
- 23.



- 
- 25