




# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

## WEEK 1 – pages 2–4


### MONDAY

- 3.00 or 3 o'clock
- $5 + 5$
- B + C
- $7 + 7 + 7$
- 8
- 3, 3, 3
- 365
- 14
- Answers will vary.
- 
- 100
- 200
- 5
- 18
- (a) 110 (b) yes
- B
- A
- C
- 14
- 10

### TUESDAY

- 3.30 or half past 3
- $9 + 9 + 9$
- $4 + 4 + 4$
- 
- 5, 5, 5, 2
- (a) 292 (b) 305
- 1100
- 7
- $\frac{1}{4}, \frac{3}{4}, \frac{9}{10}, 1$
- 10
- 
- $\frac{1}{4}$  turn
- (a) odd (b) 13
- 200
- 89
- D
- A
- B
- 15
- 18.70


### WEDNESDAY

- B
- 0
- $10 + 10 + 10$
- 1919
- 950
- 3, 3, 3, 2
- (a) 22 (b) 32
- 3
- 
- 30
- 366
- 24
- (a) 100 (b) 1000
- 1
- summer
- 12

- $\frac{1}{2}$  turn

- (a) 16 (b) 160
- 70
- 32


### THURSDAY

- A
- $7 + 7 = 14$
- 70
- It is equally likely to be a head or tail.
- 8
- 991, 1011
- $\times, \div$
- Teacher check
- 10
- $\times$
- (a) 10 (b) 100
- Teacher check
- 1
- (a) 110 (b) 1100
- 60
- 
- (a) 9 (b) 90
- C
- 3935
- 290

### PROBLEM-SOLVING

#### Monday

- 

- 

#### Tuesday

- 6
- 18


#### Wednesday

- 63
- 57

#### Thursday

- 

### FRIDAY REVIEW


- 16
- 1010
- 413
- 6
- 1020, 1000
- 60
- $\times$
- 4
- C
- 999, 1001
- (a) 120 (b) even
- 8
- 1009
- $\times$
- 525
- 40
- 4.30
- 365
- 100
- 

- $\frac{1}{4}$  turn

- 14
- 10
- 24
- Hugo

## WEEK 2 – pages 5–7

### MONDAY

- 8.00 or 8 o'clock
- 16
- $4 + 4 + 4 + 4 + 4 = 20$
- 3
- $16 \div 4 = 4$
- $+$
- 1010
- 
- 15
- pentagon
- 30 mm
- (a) 4 cm (b) 40 mm
- spring
- 365
- 52
- 197
- 990
- 42
- (a) 78 (b) 678
- Chantelle

### TUESDAY


- A
- $7 + 7 + 7 + 7 = 28$
- 1000
- (a) 8523 (b) 2358
- $15 \div 3 = 5$
- (a) 10 (b) 100
- 100
- 200
- XYZ
- 6
- Teacher check
- 1
- hexagon
- B
- (a) 11 (b) 110
- (a) 14 (b) 140
- 60
- 24
- 6
- 1

### WEDNESDAY

- A
- 10
- 22
- (a) 87 (b) 107
- $3 + 3 + 3 + 3 + 3 = 15$
- $3 \times 4 = 12$
- 12
- 4
- 24
- (a) 11 (b) 110
- $\frac{1}{2}$
- 9009
- a square
- $10 + 8 + 10 + 8 = 20 + 16 = 36$

- (a) 48 (b) 480
- 14
- (a) 120 (b) 1200
- 5
- cherries
- plums

### THURSDAY

- 10.45
- (a) 37 (b) 127
- 159
- (a) 83 (b) 103
- 4
- $8 + 8 + 8 = 24$
- $6 \times 3 = 18$
- 10
- 405
- $\frac{1}{4}$
- pentagon
- (a) 11 (b) 110
- 7
- 
- (a) 5 (b) 50
- (a) 3 (b) 30
- $\frac{1}{5}, \frac{1}{3}, \frac{1}{2}, 1$
- D
- A
- 2.95

### PROBLEM-SOLVING

#### Monday

- 57
- 9

#### Tuesday

- \$3
- Sat 19 August


#### Wednesday

- 1, 15
- Sat 2 September

#### Thursday

- \$13
- $\$1 \times 1, \$2 \times 6$

### FRIDAY REVIEW

- $9 + 9 + 9 = 27$
- 9
- 0
- 8, 10
- 24
- 13, 130
- $\div$
- 2010
- 36
- 38
- 134
- $\frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}, 1$
- 705
- B
- 65c
- 6.15 am
- 366
- 24 cm
- autumn
- 
- B
- YYY
- 6
- 5
- 21

## WEEK 3 – pages 8–10

### MONDAY

- 2.15
- 60
- $7 \times 10$
- 5
- $3 + 3 + 3 + 3 = 12$
- $3 \times 7 = 21$
- 91
- 1012
- 8
- 52
- 24
- (a) 13 (b) 23
- 20
- 6
- square
- $2 \times 300 = 600$
- 40
- 100
- 8
- 2


### TUESDAY

- 12
- $8 + 8 + 8 = 24$
- A
- (a) 31 (b) 131
- 105
- 70
- (a) 14 (b) 140
- 48
- 6
- $18 \div 3 = 6$
- (a) 130 (b) 1300
- 91



- triangular prism
- 100
- 6
- 5
- 8
- (a) 50 (b) 500
- 900

### WEDNESDAY

- 5.15
- 4
- (a) 84 (b) 840
- 9
- 27
- $9 \times 3 = 27$
- 12
- $\frac{1}{2}$
- 12
- (a) 40 (b) 400
- 7, 7
- square prism or cube
- $\$2.50 + \$2.50 + \$2.50 + \$2.50 = \$10$
- 
- 980, 1080
- autumn, spring
- $\frac{1}{3}$
- 50
- 19.–20. Teacher check

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

## THURSDAY

1. 9.15
2.  $2 + 2 + 2 + 2 = 8$
3. 5
4. 5, 5
5. 100
6. C
7. 12, 1200
8. 3000, 300, 30, 3, 3333
9. 81
10. 14
11. 1100
12. (a) 6 (b) 60
13. 10
14. square-based pyramid
15. even, or 1 in 2
16. 8
17. odd
18. 44, 44
19. (a) + (b) 8
20. 40

## PROBLEM-SOLVING

### Monday

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

### Tuesday

1. C
2. Dave

### Wednesday

1. 4
2. 24

### Thursday


1. 

1	6
16	11
2. 

16	8
24	32


## FRIDAY REVIEW

1.  $3 + 3 + 3 + 3 = 12$
2. 3000
3. 45 km
4. 150
5. 6, 3
6. 103
7. 1015
8. 5
9. 96
10.  $\times$
11. 20
12.  $\$2.50 + \$2.50 + \$2.50 = \$7.50$
13. 4
14.  $12 \div 3 = 4$
15. 12
16. odd
17. (a) 10 (b) 100
18. 7.15
19. 2
20. 6
21. 1
22. 52
23. 



B
---
24. 
25. 0 in 4

## WEEK 4 – pages 11–13


### MONDAY

1. 1
2. 500
3. 16
4. 20
5. 100
6. 365
7. 101, 91, 61
8. square-based pyramid
9.  $\times$
10.  $\div$
11. 350
12. 
13. 55, 5
14. 60
15. 1 in 6
16.  $\frac{3}{6}$  or  $\frac{1}{2}$
17. 1
18. 9
19. 5
20. 10

### TUESDAY

1. 3
2. 25
3. 
4. 
5. (a) 15 (b) 150
6. 80
7. 4
8. 50c
9. 12
10.  $36 \div 3 = 12$
11. 3
12. even
13. 52
14. kg
15. g
16. 240, 300
17. 25
18. kilograms
19. (a) 5 (b) 50
20. 100

### WEDNESDAY

1. 11
2. 25
3. 3
4. 70
5. 36
6. 54
7. 9
8. December, January and February
9. 44, 47, 3
10. 10
11. 1, 9
12. pentagon
13. 31
14. Teacher check
15. 438
16. even
17. 2, 20
18. 60c
19. 4
20. 

## THURSDAY

1. 4
2. 16, 4
3. 3.30
4. 30, 50
5. 100
6. triangular prism
7. 1100
8. 100
9. 72
10. 10
11. 8
12. odd
13. (a) 9 (b) 900
14. B and D
15. 28 or 29
16. green
17. 7
18. 20
19. 4
20. 27

## PROBLEM-SOLVING

### Monday

1. 3
2. no

### Tuesday

1. \$100
2. 3 hrs 30 min or  $3\frac{1}{2}$  hrs


### Wednesday

1. 4
2. 2.25

### Thursday

1. Mon 10.20 am
2. Tues 10.20 am

## FRIDAY REVIEW

1. 0
2. 36, 9, 36
3. odd
4. 6
5. 33, 11, 33
6. 60
7. 14
8. 
9. 60c
10. 100
11. 30
12. 1
13. 12
14. 26
15. C and G
16. kilograms
17. pyramid
18. A
19. D
20. 28
21. 19
22. \$42
23. 3
24. 1 in 4
25. 2 in 4 or  $\frac{1}{2}$

## WEEK 5 – pages 14–16

### MONDAY

1. 6
2. 19
3. 16, Teacher check array

4. 4
5. 33, 11
6. rectangle
7. 15
8. 155, 170, 15
9. (a) 11 (b) 21
10. 5, 50
11. 31
12. 896
13. 6
14. (a) 18 (b) 38
15. 10
16. vertical
17. hexagon
18. 365
19. 10 862
20.  $\times$

## TUESDAY

1. 11
2. (a) 14 (b) 24
3. 30
4. 21, Teacher check array

5. 6
6. 100
7. 4, 40
8. 48, 51, 3
9. triangular prism
10. 25
11. (a) 10 (b) 4
12. 1020
13. 80c
14. \$1.50
15. 6
16. 5
17. (a) 0.3 (b) 0.5
18. 30
19. horizontal
20.  $\div$

## WEDNESDAY

1. Teacher check
2. 8
3. \$14.50
4. 30
5. 366
6. 4
7. 88
8. octagon
9. 52
10.  $\div$
11.  $\frac{5}{10}$
12.  $\frac{4}{10}$
13. June, July, August
14. 60
15. vertical
16. 2
17. sphere
18. 

g
o + a
v

19. 29
20. Teacher check

## THURSDAY

1. 4
2. 4
3. 40
4. 1007
5. 8
6. 30c
7. 28
8. \$4.50

9. cm
10. 16
11. 88
12. (a) 24 (b) 6
13. am
14. 28 or 29
15. 80
16. 100
17. 16
18. 5
19. no
20. 0.5

## PROBLEM-SOLVING

### Monday

1. 10, 4
2. 3, 8

### Tuesday

1. camping, judo
2. 5

### Wednesday

1. 48
2. 9

### Thursday

1. square or rectangular pyramid
2. Teacher check


## FRIDAY REVIEW

1. Teacher check
2. 24, 24
3. 1009
4. 90
5. 10
6. 10
7. (a) 15 (b) 150
8. (a) 98 (b) even
9. (a) 6 (b) 5 (c) 3
10. (a)  $\div$  (b) 21
11. \$28
12.  $4 \times \$7 = \$28$
13. 3
14. 30
15. rectangular prism
16. Teacher check
17. km
18. am
19. 

c
← + →
d
20. 6
21. horizontal
22. June, July, August
23. 28
24. 9
25. 2

## WEEK 6 – pages 17–19


### MONDAY

1. 7.45
2. 93
3. 6
4. 5
5. clockwise
6. 32
7. 
8. 40

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

9. 36
10. June
11. 31
12. (a) 110 (b) 1100
13.  $\times$
14. 5
15.  $\frac{2}{3}, 1\frac{1}{3}, 2\frac{1}{3}$
16. \$16
17. 7
18. 5
19. Yomo, Tamo
20. Zea, Zoe, Zia, Zae


## TUESDAY


1. 1.45
2. 18, 18, 6
3. 
4. 110
5. 28
6. 4
7. 1220
8. A, C
9. 130
10. 8
11. 3, 30
12. March, April, May
13.  $\times$
14. 0.6
15. Teacher check
16. 976
17. 76
18. 38
19. 10
20. (a) 10 (b) 100 (c) 1000

## WEDNESDAY

1. 11.45
2. 0, 6, 6
3. 12
4. 0
5.  $\frac{1}{2}$  or  $\frac{2}{4}, \frac{3}{4}, 1\frac{2}{4}$  or  $1\frac{1}{2}$
6. pm
7. 25
8. (a) 120 (b) 1200
9. (a) 90 (b) 900
10. 200
11.  $(10 + 8) + (10 + 5) = (20 + 13) = 33$
12. 6
13. 6
14.  $\frac{1}{2}$  pizzas
15. anticlockwise
16. 24
17. 1
18. 50
19. 1100
20. 16



## THURSDAY

1. sphere
2. 32, 32
3. 10c
4. 100
5. 16
6. 
7. \$1
8. 1010

9. 1000
10. 2
11. 200
12. 9
13. morning
14. 
15. 4
16. unicorn
17. camel
18. hyena
19. 52
20. (a) 22 (b) 30

## PROBLEM-SOLVING

### Monday

1. 
2. 

### Tuesday

1. 32
2. 48


### Wednesday

1. 5 kg
2. 7 kg

### Thursday

1. 14
2. 12


## FRIDAY REVIEW

1. 36
2. 100
3. 34
4. 400
5. 140, 1400
6. 15
7. 88
8. \$1
9. 1040
10. 150
11. 15
12. 80
13. 1109
14. 87
15. 0.7
16. 4.45
17. Wednesday
18. 10
19. 16
20.  $\checkmark, \times, \checkmark$
21. 31
22. 
23. Ema, Oma, Ama, Mila
24. Hugo, Amy
25. Ema, Oma, Ama, Fini, Vini

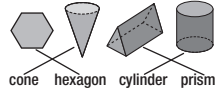
## WEEK 7 – pages 20–22

### MONDAY

1. 9.15
2. 31
3. C and D
4. 4, 40
5. 10
6. 36
7. 1 in 6
8. 1200

9. 990
10. 10
11. 130
12. 75
13. 
14. 88
15. 12
16. 160
17. 137
18. 600
19. 2000, 2010
20. highly unlikely

## TUESDAY

1. 7.45
2. 100
3. 
4. 20
5.  $7 \times 2, 2 \times 10, 5 \times 5, 3 \times 9$
6. 21
7. 90c
8. 100
9. 4, 4
10. B
11. even
12. 1200
13. cylinder
14. 85 mins,  $1\frac{1}{2}$  hrs, 117 mins, 2 hrs
15. 32, 5
16. \$10.20
17. 48
18. 300
19.  $9 + 9 = 18$
20. 200

## WEDNESDAY

1. 12.45
2. 2
3. 15
4.  $1\frac{1}{2}, 2\frac{1}{2}$
5. 31
6. September, October, November
7. 100
8. 0.9
9. 65
10. 200
11. 8
12. 120
13. square
14. 30
15. am
- 16.–18. Teacher check
19. 2nd row, 2nd from left
20. front, 1st

## THURSDAY

1. 3.00
2. 10
3. 5
4. 14
5. octagon
6.  $2\frac{1}{2}$
7. even

8. 30 minutes
9. (a)  $\frac{1}{5}$  (b)  $\frac{1}{4}$  (c)  $\frac{1}{3}$  (d)  $\frac{1}{2}$
10. cube
11. 50
12. 444
13. 14, 140
14. (a) 20 g (b) 3
15. \$6.50
16. 24
17. 30
18. 200
19.  $8 + 8 + 8 = 24$
20. 1100

## PROBLEM-SOLVING

### Monday


1. 2000
  2. Mosman
- Tuesday**
- 1.–2. Teacher check
- Wednesday**

1. 7
2. 12

### Thursday

1. 7.15
2. 9, 6

## FRIDAY REVIEW

1. 21
2. 1100
3. 0.6
4. (a) 16 (b) 160
5. 1999
6. odd
7. 120
8. 180
9. 280
10. 500
11. \$3.50
12. 5
13. 8.15
14. vertically
15. 
16. 6
17. 1
18. pm
19. 30
20. 4
21. cylinder
22. September, October, November
23. emu
24. wombat and koala or wombat and emu
25. 24


## WEEK 8 – pages 23–25

### MONDAY

1. 6
2. 16
3. 80
4. (a) 26 (b) 6
5. 31
6. 7, 7
7. 6
8.  $30 \div 5 = 6$

9. 400 m
10. pm
11. afternoon
12.  $4\frac{1}{2}$
13. 12
14. 38
15. 32
16. 105
17. 4
18. 5
19. 140
20.  $3\frac{1}{2}$

## TUESDAY

1. A
2. 2
3. 99
4. (a) even (b) odd
5. \$3.50
6. Teacher check
7.  $\frac{2}{4}$
8. column
9. 90
10. 700
11. 1400
12. 200
13. (a) 5 (b) 25
14. 800
15. (a) odd (b) even
16. 14
17. 52
18. 5
19. horizontal
20. 


## WEDNESDAY

1. 4
2. (a) 2 (b) 2
3. kilogram
4. 1000
5. 150
6. 8
7. 1 m
8. 30
9. gram
10. 12, 16, 20, 24, 28
11.  $\frac{1}{3}$
12. cone
13. 27
14. 8753
15. 1300
16.  $1\frac{1}{2}$
17. 100
18. \$8.50
19. odd, 2034, 3263, 2033  
Final answer = 2233
20. 0.4

## THURSDAY


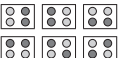
1. an even chance
2.  $14 - 7, 7 + 9, 2 \times 9, 4 \times 5$
3. 195
4. (a) 62 (b) even
5.  $\frac{1}{4}$
6. 12 pm
7. cylinder
8. 24

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

- 160
- 120
- 22, 33, 44, 55
- 10 765
- litres
- 
- $\frac{1}{4}, \frac{3}{4}$
- 20
- 4
- anticlockwise
- 6
- 31

## PROBLEM-SOLVING

### Monday

- 
- 

### Tuesday

- Answers include:  
 $5 + 4 + 3 = 12$   
 $9 + 2 + 1 = 12$   
 $6 + 4 + 2 = 12$   
 $8 + 1 + 3 = 12$   
 $7 + 3 + 2 = 12$   
 $6 + 5 + 1 = 12$
- 50


### Wednesday

- 144
- 25

### Thursday

- Teacher check drawing,  
 $9 + 9 + 9$
- 30

## FRIDAY REVIEW

- 130
- \$3.50
- 4763
- 292
- $\frac{1}{2}$  or  $\frac{2}{4}, \frac{3}{4}$
- 1200
- 5, 10, 15, 20, 25, 30, 35
- 800
- 1000
- 800
- (a) 51 (b) odd
- $2\frac{1}{2}$
- 120
- 1200
- 35
- 15
- 27
- 2.05
- 1 m
- Tuesday, clock B
- cone  

- 30
- 400
- Teacher check

## WEEK 9 – pages 26–28

### MONDAY

- (a) Sydney  
(b) Adelaide
- 12.05
- 24
- no
- am
- $\frac{1}{6}$
- 3 in 4
- $\frac{1}{2}$  turn
- 13, 130
- $3000 + 90 + 6$
- 3000
- (a) 16 (b) even
- 1 km
- 70
- $18 \div 3 = 6, 6$
- 2000, 2005, 2010
- $\div$
- 230
- 1900
- 140


### TUESDAY

- Teacher check, 1.05
- 140
- 45, odd
- 70c
- 12 408
- 398
- pentagon
- $5000 + 100 + 90$
- summer
- 31
- $\frac{1}{4}$  of an hour,  $\frac{1}{2}$  an hour,  
60 min
- $>, =, <$
- 10
- 38
- 27
- 11 000
- 600
- 46
- 6
- 8.09 am

### WEDNESDAY

- A
- 3, 3
- 200
- 20 km/h
- 366
- 200 m
- (a) 50 (b) even
- $7000 + 30 + 8$
- evening
- 10
- $\frac{1}{10}$
- circle
- 1
- 40c
- Ben and Dan
- 11
- 27, 3
- 1000
- 5, 50
- 41

## THURSDAY

- 
- 40
- 250 m
- 4
- $54, + 5$
- $\frac{1}{4}$
- hexagon
- 1120
- kilogram
- \$9
- 3, 17
- yes
- vertical
- B
- 30 624
- 52
- (a) 9 (b) odd
- litres
- 52
- 30.3

## PROBLEM-SOLVING

### Monday

- 20
- 25 g

### Tuesday

- 4
- 100 km/h

### Wednesday

- 9 and 7
- 12

### Thursday

- 10 and 7 or 12 and 5
- 8



## FRIDAY REVIEW

- 190
- 100
- 28 607
- $\frac{3}{4}$
- (a) 70 (b) even
- $300 + 10 + 8$
- 50 c
- 5000, 5005
- 593
- $\div$
- 1000
- 180
- 8, 32
- 300
- \$7
- $35 \div 7 = 5$
- A
- pentagon
- 1
- 365
- autumn
- Teacher check
- litres
- 1 kg
- equally likely to be a head or tail.

## WEEK 10 – pages 29–31

### MONDAY



- 7.45
- 0.7
- (a) 8 (b) 80

- 791
- 
- $\frac{1}{2}$
- C
- 392
- 9
- 1100
- 3, 18
- 14
- 
- 14 mins,  $\frac{1}{4}$  of an hour,  
21 mins,  $\frac{1}{2}$  an hour,  
 $\frac{3}{4}$  of an hour
- 140
- 85
- (a) 9999 (b) 9990
- $\$5 \times 9 = \$45$
- 8
- 10 kg

## TUESDAY


- 5.30
- $4 \times 3 = 12$
- (a) 70 (b) 700
- octagon
- 16
- kilogram
- (a) 20 (b) 120
- 16, 4
- 32
- 12
- 25
- (a) 70 (b) 700
- A and D
- 50c
- triangle
- clockwise
- 31
- 1100, 1102, 1104
- 1 cm
- (a) 9 (b) odd

## WEDNESDAY

- 9.30
- 87
- 400
- 64 980
- 70
- 68
- 
- 1000
- You teacher being taller than you.
- 891
- (a)  (b) pentagon
- 130
- 1200
- 3, 21
- \$1.50
- 81
- $\frac{1}{4}, \frac{3}{4}, 1\frac{1}{4}$
- 75
- 60 km/h
- (a) There (b) 90


## THURSDAY


- 3.05
- 156
- 10 899
- 185

- odd
- 
- summer
- 10
- (a) 70 (b) 170
- 45
- 40
- 7
- $21 \div 3 = 7$
- 77
- trapezium
- C
- 52
- 9099, 9100, 9101
- 24 cm
- $4 \times 9 = 36$

## PROBLEM-SOLVING

### Monday

- 

- 

### Tuesday

- 30 and 20
- 18



### Wednesday

- 10
- 50 km/h

### Thursday


- 250 mL
- 8 and 4

## FRIDAY REVIEW

- 800
- $\frac{1}{4}$
- 45
- 130
- 8
- $32 \div 4 = 8$
- 1300
- 196
- 30
- 1000
- 4, 4
- 128
- 12
- 1050
- 88
- (a) 893 (b) odd
- 9999, 10 000, 10 001
- 12.30
- evening
- autumn
- 
- 10
- 
- Teacher check
- A dog chasing the school gardener.

## WEEK 11 – pages 32–34


### MONDAY

- 11.10
- \$100
- 15
- 10; 1000, 100, 10
- triangular prism
- 10
- 



# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

8. 25
9. \$7.50
10. 8, 12
11.  $\times$
12.
13. 365
14. 1000 mL
15. 240
16. May
17. 4, 4
18. (a) 10 999  
(b) 10 998  
(c) 11 495
19. 160
20. 50


## TUESDAY

1. 3.10
2. 9
3. 23 km
4. 4 cm, 40 mm
5. December
6. 30
7. 47
8.  (One of these lines.)
9. \$11.40
10. 36
11. tonnes
12. 12 am
13. 299
14. 100
15. (a) 80 (b) 180
16. 11
17. 22
18. 4
19. \$1
20.  $900 + 10 + 6$

## WEDNESDAY

1. 8.10
2. 8
3. 300
4.  $\frac{8}{100}$
5.  (One of these lines.)
6. 18
7. larger
8. 18
9. 12 pm
10. 
11. 130
12. anticlockwise
13. 30
14. 3
15. vertical
16. 1 m
17. 33
18. \$700
19. (a) 150 (b) 1500
20. \$1.25

## THURSDAY

1. 1.10
2. BB
3.  $5 \times 5$
4.  (One of these lines.)

5. 70 070
6. 12
7. 700
8. 14
9. 1000 m
10. 1
11.  $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$
12. 1
13. 300
14. 20 km
15. smaller
16. 29
17.
18. 16
19. 4
20. 11

## PROBLEM-SOLVING

### Monday

1. 250 mL
2. 150

### Tuesday

1. 18
2. 24



### Wednesday

1. 3
2. 4

### Thursday

1. 21
2. 79

## FRIDAY REVIEW

1. 29
2. 10 995
3. \$1000
4. larger
5. 27
6. 93
7. 320
8. 200
9. 8
10. 1
11. 11
12. 2
13. 500
14.  $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$
15. 4.45
16.
17. 1000 mL
18. 10
19. August
20. 
21. 30
22. pentagonal prism
23. 
24.  $4\frac{1}{2}$
25. 11

## WEEK 12 – pages 35–37

### MONDAY



1. 5.10
2. 16 cm
3. 9990
4. Answers will vary.
5. C, B
6. Teacher check

7. 1538
8.  $6 \times 2$
9. a rain gauge
10. 73
11. August
12. 1300
13. Teacher check
14. 1200
15. 14
16. (a) 700 (b) 650
17. 1000 mL
18. \$2.75
19. 7
20. 30

## TUESDAY

1. 9.10
2. 24
3. 10
4. Teacher check
5. 5
6. 4
7. horizontally
8. millimetres (mm)
9. 1000 g
10. 11
11. 30
12. (a) 8 (b) 12
13. 100
14. 40 mm
15. Emilie – 1, Lincoln – 2, Jakob – 3
16. 36, 36
17. Teacher check
18.  $\frac{1}{3}$  or  $\frac{2}{6}$
19. 0.12
20. 100 km

## WEDNESDAY

1. 2
2. 10
3. no
4. 54
5. (a)–(c) Teacher check (d) 5 cm
6. 204
7. 11
8. vertical
9. 1000
10. 
11. 2.30
12.  $3 \times 8 = 24$  or  $8 \times 3 = 24$ ,  $24 \div 3 = 8$  or  $24 \div 8 = 3$
13. \$1
14. \$2
15. 
16. 500
17. 108
18. 350 m
19. 1000 m
20. 0.04

## THURSDAY

1. 18
2. 31
3. 52
4. 100, 10; 1000, 100, 10
5. 84
6. 10, 10
7. winter
8. 70
9. <
10. 156

11. 7
12. 250
13. no
14. pm
15. (a) 5100 (b) 50 910
16. 4
17. rectangle
18. wind speed
19. Teacher check
20. trapezium

## PROBLEM-SOLVING

### Monday

1. 150
2. 100

### Tuesday

1. C
2. 

### Wednesday

1. 5
2. 2

### Thursday


1. 8
2. 4

## FRIDAY REVIEW

1. 0.04
2. 1099
3. 600
4. 51
5. \$10
6. less
7. 20 c, 10 c
8. 9998
9.  $3\frac{1}{2}$
10. true
11. 16
12. 117
13. 505
14. 17
15. 5
16. pm
17. 60 mm
18. cone
19. Teacher check
20.  $\frac{1}{3}$  or  $\frac{2}{6}$
21. vertically
22. 5
23. 1000 m
24. B, C
25. Answers will vary

## WEEK 13 – pages 38–40

### MONDAY

1. east/right
2. 0.17
3. (a) 4 (b) 40
4. 10
5. 48
6. 134
7. June
8. 
9. spring
10. square pyramid
11. Thursday
12. Saturday and Sunday
13. 672
14. 194


15. 36
16. true
17. 9
18. false
19. true
20. false

## TUESDAY

1. 10 000
2. 12
3. A = 70 mL, B = 45 mL, C = 30 mL
4. 12, 12 000
5. 18 cm
6. square
7. eating broccoli for breakfast
8. 45
9. eighteen
10. 1000 mL
11. kilometres
12. false
13. true
14. 900
15. 57
16. 12, 12
17. no
18. 2
19. 9
20. 

	PRIME	COMPOSITE
Odd	3, 5, 7, 11, 13	9, 15, 21
Even	2	4, 6, 8, 10, 12

## WEDNESDAY

1. 7.20
2. 1100
3. 60
4.  $\times$
5. 30 mm
6. 8
7. February
8. 43
9. 31
10. 300
11. 7
12. 
13. true
14. prime
15. 5
16. 600
17. 2000
18. C and D
19. A and B
20. < \$1000

## THURSDAY

1. 4.20
2. 50
3. 400
4.  $\frac{7}{10}$
5. 600
6. 1100
7. 30 cm
8. 23
9. Teacher check drawing,  $3\frac{1}{2}$  cm or 35 mm
10. \$9.80
11. 6 minutes
12. 78
13. B
14. \$16
15. < 920
16. 196

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

17. (a) 19 999 (b) 20 200  
 18. 34  
 19. 400  
 20. Teacher check

### PROBLEM-SOLVING

#### Monday

1. 3  
 2. 8

#### Tuesday

1. 6  
 2. 1

#### Wednesday

1.  $4 \times 7 = 28$   
 2.  $6 \times 12 = 72$

#### Thursday

1. 40 and 50  
 2. 12

### FRIDAY REVIEW

1.  $2 \times C$   
 2. 21  
 3. 70  
 4. 24, 24  
 5. \$66  
 6. false  
 7. 206  
 8. 39  
 9. 700  
 10. 8674  
 11. 102  
 12. 800  
 13. 18 800  
 14. false  
 15.  $< 470$   
 16. 1200  
 17. prime = 2, 3, 5, 7  
 composite = 4, 6, 8, 9  
 18. 10  
 19. 33  
 20. \$14.30  
 21. A  
 22. 18 cm  
 23. 50  
 24. 500 mL  
 25. Answers will vary

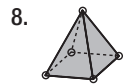
### WEEK 14 – pages 41–43

#### MONDAY

1. 2.20  
 2. 250 cm  
 3.  $4 \times 9 = 36$ ,  $9 \times 4 = 36$   
 $36 \div 4 = 9$ ,  $36 \div 9 = 4$   
 4. 25  
 5. A  
 6. 31  
 7. 50  
 8. \$1.50  
 9. 28, 4  
 10. B  
 11. tonne  
 12. 22 200  
 13. no  
 14. false  
 15. Friday  
 16. 80  
 17.  $2\frac{1}{2}$   
 18. 10  
 19. south-east  
 20. false

### TUESDAY

1. 12  
 2. 5 hours 15 minutes  
 3. hexagon  
 4. \$2  
 5. 77  
 6. 207  
 7.  $7 + 9 = 16$ ,  $9 + 7 = 16$   
 $16 - 7 = 9$ ,  $16 - 9 = 7$



8.  
 9. 48  
 10. south-west  
 11. 100  
 12. B  
 13. either a head or tail  
 14. 36, 6  
 15. irregular pentagon  
 16. 10  
 17. 7  
 18. 11 February  
 19. (a) 240 (b) 240  
 20. 1000 g

### WEDNESDAY

1. 5  
 2.  $\frac{1}{2}$   
 3. 33  
 4. 21  
 5. Sunday  
 6. 1303  
 7. 16  
 8. (a) F,4 (b) B,7  
 (c) E,6 (d) G,1  
 (e) G,2 (f) F,4  
 9. 31  
 10. 5  
 11. 40 mm  
 12. square  
 13. 7  
 14. 0.40  
 15. 100  
 16. 40  
 17. 2  
 18. 24  
 19. 12  
 20. D

### THURSDAY

1. 8.20  
 2. 90  
 3. 11  
 4. 24, 24  
 5. 366  
 6. 0.07  
 7. 34  
 8. 3, 7, 11  
 9. yes  
 10. 2  
 11.  $5\frac{1}{2}$  m  
 12. 25 025  
 13. north-east  
 14. \$65  
 15. 800, 4  
 16. trapezium  
 17. \$13.65  
 18. 395  
 19. 7  
 20. 22

### PROBLEM-SOLVING

#### Monday

1. \$7.80  
 2. \$3

#### Tuesday

1. 4  
 2. 40

#### Wednesday

1. 5  
 2. 34

#### Thursday

1. Thursday  
 2. \$2

### FRIDAY REVIEW

1.  $600 + 10$   
 2. \$1  
 3. 27  
 4. 7  
 5. 0.09  
 6. 5  
 7. 1705  
 8. 48  
 9.  $\frac{1}{4}$   
 10. 10, 14, 30  
 11. 8  
 12. 295  
 13. 1  
 14. yes  
 15. Monday  
 16. 1 kg  
 17. no  
 18. (a) 3 (b) 2  
 19. NE  
 20. 8, 15  
 21. irregular pentagon  
 22. 60 mm  
 23. A  
 24. C  
 25. 5

### WEEK 15 – pages 44–46

#### MONDAY

1. highly likely  
 2. +  
 3. 9  
 4. A  
 5. B  
 6.  $\div$   
 7. 6  
 8. cone  
 9. 300, 7  
 10. 12  
 11. third  
 12. 61  
 13. 24 December  
 14. 65c  
 15. (a) 66 (b) 660  
 16. set  
 17.  $\frac{1}{4}$   
 18.  $8 \times 6 = 48$   
 19.  $5 \times 4$   
 20. Teacher check

### TUESDAY

1. 10.50  
 2. 18  
 3. 20  
 4. 28 cm  
 5.  $12 - 6 = 6$   
 6. 8

7. sphere  
 8.  $32 \times 3$   
 9. north-west  
 10. 5 cm  
 11. 13  
 12. 27  
 13. fifth  
 14. 35c  
 15. (a) 3128 and 3144  
 (b) 3509  
 (c) 3127  
 (d) 3129

16.  $A = 38$ ,  $B = 112$   
 17. 1000 mL  
 18. 33  
 19. true  
 20.  $\frac{1}{4}, \frac{3}{4}$

### WEDNESDAY

1. 1.50  
 2. 1000 m  
 3. 10, 2113  
 4. 267  
 5.  $4 \times 7 = 28$  or  $7 \times 4 = 28$ ;  $28 \div 7 = 4$  or  $28 \div 4 = 7$   
 6. 10  
 7. 8 cm  
 8. 56  
 9. C  
 10. seventh  
 11.  $\checkmark$ ,  $\times$ ,  $\checkmark$   
 12. 1000 mm  
 13. anticlockwise  
 14. 23  
 15. 200  
 16. 18  
 17.  $\frac{2}{3}, 1\frac{1}{3}, 2\frac{1}{3}$   
 18. (a) odd (b) 1  
 19.

### THURSDAY

1. 6.50  
 2. 4  
 3. 100, 1324  
 4. 40  
 5. 50  
 6. C  
 7.  $\frac{3}{5}$   
 8. 3368  
 9. PR  
 10. (a) 200 (b) 1200  
 11. C, 3  
 12.  $9 \times 16$   
 13. A  
 14. 1000 g  
 15. 9  
 16. 15 934  
 17. \$3.50  
 18.  $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$   
 19. 5  
 20. 0.6

### PROBLEM-SOLVING

#### Monday

- 1.
- 2.

### Tuesday

1. 16 minutes  
 2. 9.08 am

### Wednesday

1. 30

2. 6 and 9

### Thursday

1. 90

2. 25

### FRIDAY REVIEW

1. 18  
 2. 600, 8  
 3. 13  
 4.  $\frac{2}{3}$   
 5. 27  
 6. odd  
 7. 8  
 8. 85c  
 9.  $4 \times 2$   
 10. 20  
 11. 400  
 12. 356  
 13. 44  
 14. 7  
 15.  $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$   
 16. 7  
 17.  $21 \div 3 = 7$   
 18. 9  
 19. 5  
 20. 12 November  
 21. 1000 mL  
 22. 7<sup>th</sup>  
 23. 400 cm  
 24. A  
 25. Answers will vary.

### WEEK 16 – pages 47–49

#### MONDAY

1. 3.50  
 2. hexagon  
 3. 1 L  
 4. 120 000  
 5. 6  
 6. tonne  
 7. 77  
 8.  $A = 145$ ,  $B = 110$ ,  
 $C = 120$   
 9. 12  
 10. 1200  
 11. 15  
 12. 31  
 13. 14  
 14. 1111  
 15. 34  
 16. 200  
 17. even  
 18.  $\frac{7}{100}$   
 19. (a) D,2 (b) B,3  
 (c) F,9 (d) B,6  
 20. Teacher check

### TUESDAY

1. 9.50  
 2. hexagon  
 3. north-west  
 4. 1400  
 5. 4431  
 6. odd


# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

- $\frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$
- 60
- $\$3.50 + \$3.50 + \$3.50 + \$3.50 = \$14$
- $\div$
- E**
- \$4
- D
- 16
- 25 May
- 46
- 5
- 0.08
- $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$
- $\frac{1}{3}, \frac{2}{3}$

## WEDNESDAY

- (a) impossible  
(b) unlikely  
(c) very likely
- 4
- (a) 3 (b) 2
- 30-m tape
- 4 pm
- 12
- (a) 7 (b) 7
- NE
- 51
- 4
- 35
- 75c
- 140
- 31
- 3, 2, 5
- 1994
- yes
- yes
- triangular prism
- 1 kg

## THURSDAY

- Teacher check
- octagon
- (a) 4  
(b) 
- 3 m
- 3
- 18 m
- 170, 1700
- 1111, 3152
- B
- 160
- $\frac{2}{8}$
- (a) 1365 (b) 1356
- 906
- 14
- 0.18
- 30c
- $\frac{1}{6}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$
- true
- Teacher check; blue = 6, red = 3, yellow = 3
- 6 in 12 or 1 in 2

## PROBLEM-SOLVING

### Monday

- B
- 180 m

### Tuesday

- 10
- 40

### Wednesday

- \$91
- Teacher check

### Thursday

- 2 kg
- 1 kg

## FRIDAY REVIEW

- Teacher check; red = 4, blue = 2, green = 2
- 40, 400
- 160, 1600
- $24 \times 4$
- 151
- 200
- 71
- 2, 3, 5, 7
- Teacher check
- $\frac{1}{5}$
- 400
- $\div$
- 8731
- 4
- 2996
- 11
- $\div$
- $\frac{1}{10}, \frac{1}{5}, \frac{1}{4}, \frac{1}{2}$
- $\frac{9}{10}$
- 8
- 1.50
- yes
- north-west
- tonnes
- 2 in 8 or 1 in 4

## WEEK 17 – pages 50–52



### MONDAY

- 1.25
- cone
- 10 000
- pentagon
- 900
- cylinder
- 24
- 8101
- 68
- 10, 8
- 2000 m
- 2000 mL
- 500 cm
- grams
- 990
- Teacher check
- Teacher check
- 4
- Teacher check
- 12 August


## TUESDAY

- 6.55
- $\frac{1}{4}$  turn
- 101
- \$4.50
- 21
- 5
- 900
- 1 in 6
- 49
- 15
- 88
- clockwise
- 19, 24
- 22 cm
- false
- 800
- 790
- 12
- Bella
- 4

## WEDNESDAY

- 
- 2100
- 28, 4
- 53
- 700
- 21 333
- 15 kg, 20 kg
- 3, 5, 9
- $\frac{3}{100}$
- 155
- no
- 70
- (a)  $\frac{1}{4}$   
(b) Teacher check colouring,  $\frac{2}{8}$
- 0.05
- 
- 2
- 150
- 200
- 36
- $4 \times 9 = 36$  or  $9 \times 4 = 36$

## THURSDAY

- 80
- 130
- $6 + 6 + 6 + 6 = 24$
- 30
- Teacher check
- 177
- 66
- 35
- 3
- \$8.25
- $\frac{3}{8}$  or  $\frac{1}{2}$
- 
- Answers will vary.
- Teacher check
- February
- 2 kg
- 9

- 14
- \$10 000
- friend

## PROBLEM-SOLVING

### Monday

- 20 m
- 50 m

### Tuesday

- 16, 32
- 6

### Wednesday

- C
- 10.30 am

### Thursday


- 7
- 2

## FRIDAY REVIEW


- 207
- 74
- true
- 42
- 32
- 24
- 120
- 100, 10
- 24
- 100
- 7
- 27, 6
- Teacher check, 7.25
- 25 kg, 20 kg
- Tuesday
- 300 cm
- A
- Teacher check
- no
- 2000 m
- 52
- Teacher check
- 5
- 1 September
- 28

## WEEK 18 – pages 53–54

### MONDAY

- 3.25
- 95, 950
- 90
- 120
- 19
- 82
- 16
- 8000 mL
- September
- 55
- $\frac{1}{2}$
- 
- 0.23
- 8
- $\times$
- 10 010
- Teacher check
- Mila
- Alex
- Kobi

## TUESDAY

- 9.25
- 13
- 
- A and D
- 150, 1500
- 31
- \$9
- $\div$
- kilograms
- hexagon
- 50c
- clockwise
- 16
- thombus
- \$1.60
- 8980
- 600
- 30 cm
- 4
- $12 \div 3 = 4$

## WEDNESDAY

- 3
- 6
- 21
- $\frac{9}{100}$
- 3
- 12 or 14
- 366
- 23
- 500 mm
- 10 100
- 36
- 35
- Answers will vary.
- 9
- 24
- 3
- sunrise
- B and C
- no
- \$7.20

## THURSDAY

- 2
- 17
- parallelogram
- (a) 6 (b) 600
- $\frac{2}{3}, \frac{6}{9}$ , Teacher check colouring
- north-east
- $7\frac{1}{2}$  minutes
- trapezium
- 800
- column
- 10
- 1000
- A
- no
- \$3
- \$15
- 14
- 18.–20. Teacher check

## PROBLEM-SOLVING

### Monday

- \$3
- 4

### Tuesday

- 70 and 80
- 4 and 3

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

## Wednesday

1. 8
2. 1

## Thursday


1. 35 km
2. 200 km

## FRIDAY REVIEW


1. 10
2. 0.25
3. ÷
4. 800
5. 5850
6. 800
7. 50c
8. 18
9. 18
10. 40 040
11. \$7
12. 49
13.  $\frac{1}{4}$
14. 168
15. \$7
16. \$15 short
17. 6
18.  $42 \div 7 = 6$
19. 12
20. (a) A (b) B
21. 100 cm
22. 32 cm
23. yes
24. irregular hexagon
25. column

## WEEK 19 – pages 56–58

### MONDAY

1. 7.35
2. 30
3. (a) odd (b) 33
4. false
5. 240
6.  $A + B = C$
7. 11
8. 
9. 400
10. Teacher check
11. 60
12. 200
13. 9
14. Teacher check
15. 6 cm
16. 50 cm
17. Saturday and Sunday
18. 24 cm
19. 100 cm
20. 4

### TUESDAY


1. 10.35
2. 140
3. yes
4. 3
5. 5, 5
6.  $Z + X = Y$
7. 7
8. 29
9. 5
10. 1-L bucket
11. 12 am
12. 
13. 10

14. 840

15. C and D
16.  $(3 \times 10) + (3 \times 4) = 30 + 12 = 42$

17. 60
18. 500 g
19. 70
20. (a) 56 (b) 112

## WEDNESDAY

1. 7.35
2. 140
3. 18
4. 100 secs
5. 1000 cm
6. 
7. 90
8. 80
9. Teacher check

10. 11
11. 500 m
12. \$3.50
13. 



14. 21
15. 39
16. 40
17. south-east
18. 1000 m
19. 200
20. C

## THURSDAY

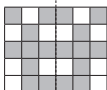
1. 9
2. 60
3. 8
4. 10
5. 12
6. 24
7. 6
8. 10
9. 48
10. 10 000, 1000, 100, 10
11. (a) 72 (b) 144
12. 5
13. 5, 8
14. 6
15. 9
16. 3
17. 12
18. \$1690
19. Surf cruiser and Wave messer
20. \$750

## PROBLEM-SOLVING

### Monday

1. 
2. 

### Tuesday

1. 1000 mL or 1 L
2. 


### Wednesday

1. 200
2. 25 kg

## Thursday

1. 5
2. 23


## FRIDAY REVIEW

1. Teacher check
2. 8
3. 54
4. 500
5. 43
6. 2000 m
7. 10, 3
8. 70
9. 14
10. \$2.50
11. 11.70
12. (a) 81 (b) 162
13. 8
14. 9.35
15. 50 cm
16. 365
17. 500 g
18. 5 cm
19. 

20. SE
21. C
22. Teacher check
23. 500 m
24.  $5\frac{1}{2}$  hrs
25. less than \$500

## WEEK 20 – pages 40–41

### MONDAY

1.  $\frac{4}{8}$
2. 30
3. 0.1
4. 
5. 16
6. 65
7. 800
8. 2
9. 993
10. 22
11. a quadrilateral
12. mL
13. 500 mL
14. 5 mm
15. 36
16.  $20 + 14 = 34$
17. 4
18. (a) 72 (b) 8
19. Teacher check colouring, 5
20. 5 in 10 or 1 in 2


### TUESDAY

1. (a) 2 (b) 0.5
2. 12
3. 24
4. 45c
5. 31
6. (a) E, 2 (b) A, 3 (c) F, 4 (d) D, 3 (f) D, 2
7. north
8. 96
9. 3
10. 48
11. 90 090


12. 24 March

13. 1000
14. 5000, 10
15. 700
16. 80
17. no
18. (a) 60 (b) 600
19. Teacher check colouring, 5
20. Teacher check colouring,  $\frac{10}{2} = 10 \div 2 = 5$

## WEDNESDAY

1.  $2, \frac{1}{3} = \frac{2}{6}$
2. kg
3. 
4. 400
5. 111 011
6.  $10, \frac{10}{100}$
7. 60
8. 45
9. 5
10. 36
11. 18
12. 6<sup>th</sup>
13. 500 m
14. \$35
15. 600
16. parallelogram
17. 180
18. Teacher check
19. 0.45
20. 8, 16, 24, 32, 40, 48

## THURSDAY

1. 12.35
2. 100 000, 6000, 300, 70
3. measuring between two or more points
4. 
5. 43
6. 20, 40, 60, 80, 100
7. 60
8. 26
9. \$14
10. Teacher check
11. 1000
12.  $\frac{2}{10} = \frac{1}{5}$
13. 9
14. (a) 92 (b) even
15.  $2, \frac{3}{6} = \frac{2}{4}$
16. 24
17. 900
18. litre
19.  $(2 \times 10) + (2 \times 8), 36$
20. 3000

## PROBLEM-SOLVING

### Monday

1. \$24
2. 8 minutes 4 seconds

### Tuesday

1. 225
2. 961


### Wednesday

1. 5 and 8
2. 21

### Thursday

1. 2.35
2. 

## FRIDAY REVIEW


1. 88, even
2. 7
3. 400
4. 9499
5. (a) 10 (b)  $\frac{10}{100}$  or  $\frac{1}{10}$
6. 38
7. Teacher check
8. 1014
9. 8, 16, 24, 32, 40, 48
10. 36
11.  $(2 \times 10) + (2 \times 9), 38$
12. 42, 6
13. 111 111
14. Teacher check, red = 3
15. Teacher check, blue = 6
16.  $\frac{3}{12}$  or  $\frac{1}{4}$
17. 500 mL
18. (a) 3 (b) 2
19. 30 April
20. mL
21. south
22. 
23. 8 L
24. parallelogram
25. 3 in 12 or 1 in 4

## WEEK 21 – pages 62–64

### MONDAY

1. 5.35
2. 16
3. 0.82
4. 86
5. true
6. true
7. Teacher check
8. even
9. 11 009
10. 50 cm
11. 1000 kg
12. no
13. A and C
14. 3 in 4
15. 356
16.  $99 \div 9 = 11$
17. 21
18. 9.40
19.  $\frac{2}{4} = \frac{1}{2}$
20.  $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{10}$

### TUESDAY

1. 7.55
2. (a) 250 (b) 350
3. (a) 8 (b) 80
4. 7
5. 73
6. 1567
7. 8
8.  $\frac{5}{10}$  or 0.5
9. 10 010
10. false
11. 15 mm
12. 4 cm
13. 11 008
14. odd
15. cylinder
16. Teacher check, 3 hats should be coloured.
17. A = odd, B = even
18. 12
19. 
20. 1 hour



# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

## WEDNESDAY

- (a) Green or Red Ave  
(b) Blue Blvd or Aqua Ave
- 2053
- $100 \div 10 = 10$
- 20 010
- 32
- 95 kg
- 8
- 11 106
- \$3.80
- 24
- $\frac{1}{2}$  or  $\frac{2}{4}, \frac{3}{4}$
- 10 500, 9000
- an irregular
- $\frac{9}{100}, 100$
- 8.45
- 20 m
- 500
- 31
- yes
- 1 out of 6

## THURSDAY

- 1
- (a) 9 (b) 90
- B
- 50
- $(2 \times 10) + (2 \times 9) = 20 + 18 = 38$
- $\frac{2}{6}$
- $\frac{2}{4} = \frac{1}{2}$
- 995
- 31 r 1
- (a) an irregular  
(b) pentagon
- 900
- 1710
- 
- 21
- 5000 g
- $\frac{7}{100}$  or 0.07
- 450 cm
- 20
- 250
- $\frac{1}{8}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$

## PROBLEM-SOLVING

### Monday

- 5
- 9

### Tuesday

- 30
- 150

### Wednesday

- Teacher check
- \$6000

### Thursday

- Teacher check
- 6

## FRIDAY REVIEW

- 350
- $\frac{1}{6}, \frac{1}{5}, \frac{1}{3}, \frac{1}{2}$
- $\frac{8}{10}$
- 12 007
- 81, 81
- 3500
- 2800
- 86
- 7

- 100
- 32 r 1
- \$2
- 1000 kg
- 6
- 26 cm
- 
- Teacher check
- 3
- yes
- 12
- What Ave
- Where Rd
- 3, 2, 1
- blue
- yellow

## WEEK 22 – pages 65–67

### MONDAY

- (a) B  
(b) semicircle
- 3, 6
- (a) 5 (b) odd
- (a) 300 (b) even
- 15
- 12 r 1
- $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$
- (a) 12 (b) 8
- 30
- (a) E, 2 (b) A, 4  
(c) C, 6 (d) E, 3
- 4.5 L, 4500 mL
- \$2
- Teacher check
- true
- improper fraction
- 500 m
- false
- 21
- 10
- 14

### TUESDAY

- 8.55
- 112
- \$10
- 3
- 7.35
- 150
- 3000
- 
- \$3.50
- 207, 204
- 

- \$50, \$5
- 1 in 6
- 170
- 365
- 400
- 970
- 6.5 m or 650 cm
- 6
- true

### WEDNESDAY

- A
- $6\frac{1}{2}$  kg

- 52
- yes
- $13\text{ r }1, 13\frac{1}{5}$
- 
- 4
- 1
- 
- 3, 7
- 110
- 600
- $4 \times 9 = 36$   
or  $9 \times 4 = 36$
- 36  $\div$  4 = 9  
or  $36 \div 9 = 4$
- certain
- 88
- 1006
- true
- \$10
- $4\frac{1}{2}$
- 6

## THURSDAY

- 4.55
- odd
- 7500 mL
- 14
- Dec -1, Sep -2,  
May -3, Feb -4
- 10
- true
- Teacher check
- no
- $8\frac{1}{2}$
- 27
- 32
- 
- 2, 4, 6
- \$4
- 11
- 1110
- $8800 + 85$
- 68
- 2 in 6 or 1 in 3

## PROBLEM-SOLVING

### Monday

- 55
- 15

### Tuesday

- 1 cup and  $\frac{1}{2}$  cup
- $\frac{1}{2}$  cup and  $\frac{1}{4}$  cup

### Wednesday

- Liam
- 0.4

### Thursday

- 3 and 6
- 6 and 4

## FRIDAY REVIEW

- 3, 9
- 1007
- 12 r 1
- 8
- 9
- 240
- \$5
- $600 + 30 + 7$

- Teacher check colouring,  
 $A = \frac{4}{8}, B = \frac{2}{4}$
- 82
- 360
- $3051 + 220 = 3271$
- 40
- 1
- 35
- 9, 6
- no
- 2.5 L, 2500 mL
- 28 L
- (a) D, 4 (b) E, 3  
(c) D, 2 (d) H, 1
- 
- 
- 2
- 
- Answers will vary.

## WEEK 23 – pages 68–70

### MONDAY

- 2.40
- 890
- 7
- $\frac{2}{3}, \frac{1}{2}, \frac{1}{4}, \frac{1}{5}$
- A
- 9000
- 50
- $0.7 = \frac{7}{10}$
- 25 mm
- 2, 5
- 9500 mL
- 10 000, 400
- 40
- 41
- 16
- an equilateral
- true
- 17 km
- 2 km
- Eagle Farm

### TUESDAY

- \$200, \$120, \$320
- no
- 2, 4
- 7.55
- 4
- 490
- (a) 6 (b) even
- 
- 320
- 1300
- 121
- 36
- 1990, 2090, 2490
- 550 cm
- thirds
- \$170
- 
- 370
- 9
- Teacher check dots, 6

## WEDNESDAY

- 4
- 7
- 90
- 1.5 cm or  $1\frac{1}{2}$  cm
- 206
- 5
- 60
- tenth
- $\$3.50 + \$3.50 + \$3.50 = \$10.50$
- 1009
- 25 kg
- 88
- $0.8 = \frac{8}{10}$
- 
- Teacher check
- 907
- 21
- 9, 12, 6
- 2, 4, 12, 10, 6
- 4, 12

## THURSDAY

- 7, 6.40
- 45 mm
- 
- 300
- 1944, 2054
- 60
- 4
- 366
- a scalene
- 271
- 50 g and 100 g
- 480
- (a) 0.3 (b) 0.03
- 
- 7
- \$16.80
- February
- $\times$
- 
- 8

## PROBLEM-SOLVING

### Monday

- Teacher check
- \$120 000

### Tuesday

- Week 4
- \$3

### Wednesday

- Week 3
- $\$0.25$  or 25c

### Thursday

- 32
- $6 \times 3 = 18$

## FRIDAY REVIEW

- 2, 4, 8
- 4
- 56
- 1509
- quarters
- 15
- (a) 12 (b) 12 000

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

8. (a) 55 (b) 550
9. 8
10. 0.4
11. 183
12. true
13. 60
14. 24
15. \$10.30
16. 11, 13, 15, 17
17. 8
18. an isosceles
19. 2500 g
20. yes
21. 14 kg
22. 52
23. 15 mm
- 24.
25. 2 in 8 or 1 in 4

## WEEK 24 – pages 48–49

### MONDAY

1. 8.40
2. 150 cm
3. 22
4.  $0.2 = \frac{2}{10}$
5. (a) 110 (b) 11 000
6.  $\$200 + \$80 + \$40 + \$20 = \$340$
7. (a) 250 (b) 2500
8. (a) 1 (b) odd
9. 60
10. false
11. 4, 10
12. (a) 80 (b) even
13. column
14. 29 February
15. 9
16. 1111, 3162
17. 270
18. 2700
19. 12
20. 9

### TUESDAY

1. 1.40
2. 88
3. midnight
4. (a) 27 (b) odd
5. \$1.70
- 6.
- 7.
8. (a) 6 (b) 2
9. 196
10. unlikely to impossible
11. 17
12. 550, 450
13. false
14. 6
15.  $0.9 = \frac{9}{10}$
16. 7.00
17. 0.3
18.  $(3 \times 20) + (3 \times 3) = 60 + 9 = 69$
19.  $\frac{8}{10}$  or 0.8
20.  $180^\circ$

### WEDNESDAY

1. 85
2. 2200
3. 33, 11
4. 0.5
5. 10
6. 280
7. 4.5 L
8. 7
9. false
10. 16
11.  $2\frac{1}{3}, 3$
12. 3
13. 300
14. 6500 m
15. 23
16. 15
17. Teacher check dots, 10
18. stir-fry
19. 3
20. BBQ

### THURSDAY

1. 100, 175
2. (a) 5 (b) 2
- 3.
4. (a) 7 (b) 700
5. even
6. 500 kg
7. no
8. 31
9. 2
10. 300
11. 0.04
12. 70
13. 700
14. 30
15. 35
16. 2500 g
17. 13 February
18. 63, 7
19. 9099
20. B

### PROBLEM-SOLVING

#### Monday

1. 140
2. 1039

#### Tuesday

1. \$4.50
2. 9

#### Wednesday

1. 3
2. 6

#### Thursday

1. 8 and 4
2. 1

### FRIDAY REVIEW

- |  |         |
|--|---------|
| 1. 0.4   | 2. 1.0  |
| 3. 60  | 4. 4, 8 |
| 5. 11  | 6. 70   |
| 7. even  | 8. 19   |
| 9. 16 991                                      |         |
| 10. false                                      |         |
| 11. $2\frac{2}{3}, 3\frac{1}{3}, 3\frac{2}{3}$ |         |
| 12. $0.6 = \frac{6}{10}$                       |         |
| 13. 10   |         |
| 14. false                                      |         |

15. 24
16. 350 cm
17. 8
18.  $4\frac{1}{2}$
19. rhombus
20. 29 February
21. 8.00
22. 30
23. hexagonal prism
24. 14
25. 24

## WEEK 25 – pages 74–76

### MONDAY

1.  $\frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$
2. 8 r 4
3. an anticlockwise
4. 1.0
5. (a) 104 (b) even
6. 2200
7. 0.1
8. no
9. 250
10. (a) 15 (b) 15 000
11. 360
12. 8
13. 7 October
14. Teacher check
15. 5500 kg
16. 5
17.  $\frac{5}{10}$  or  $\frac{1}{2}$
18. true
19. 2, 4
20. 1.4

### TUESDAY

1. eleven
2. 3
3. (a) 17 (b) odd
4. 12
5. 60
6. 2.0
7.  $50 + 30 + 2 + 2 = 84$
8. 15
9. 4444
- 10.
11. (a) 101 (b) odd
12. 24 cm
13. 1
14. true
15. C
16. 1.8
17. 6
18. 5
19. Teacher check
20. 5

### WEDNESDAY

1. autumn
2. (a) 7 (b) 7000
3. (a) 1278 (b) 1978
4. 4, 5, 8
5. 200
6. (a)  $56 \div 8 = 7$   
(b)  $7 \times 8 = 56$
7. 29 February
8. 8
9.  $0.1 = \frac{1}{10}$
10. 7
11. 410

12. 24
13. 30
14. 2.3
15. 1.0
16. 19
17. 3
18.  $20 \text{ m}^2$
19.  $16 \text{ m}^2$
20.  $36 \text{ m}^2$

### THURSDAY

1. Teacher check, 4 sweets should be circled
2. \$5.50
3. 12 pm
4.  $360^\circ$
5. \$1.30
6. 86
7. 23
8. \$7
9. 0
10. pm
11. 2, 3
12. hexagon
13. 80
14. 4 L 750 mL
15. 0.4
16. 58
17. false
18. 1.0
19. 70
20. 908

### PROBLEM-SOLVING

#### Monday

1. 300 km
2. 900 km

#### Tuesday

1.  $7 \text{ m}^2$
2.  $8 \text{ m}^2$

#### Wednesday

1. C, A, B
2. 2.20 sec.

#### Thursday

1. \$20
2. 79

### FRIDAY REVIEW

1. (a) 1543 (b) 995
2. 5
3. 4
4. 90
5. 32
6. 4, 10, 0.4
7. 19
8. 300
9. 10
10. 1.8
11. 890
12. \$5
13. 10
14. 75
15. 550 cm
- 16.
17. 14 January
18. 24 cm
19. 3500 kg
- 20.
21. IIII
22. 16
23. boys

24. girls
25. 28

## WEEK 26 – pages 77–79

### MONDAY

1. 3
2. 0.7
3. 46
4. 18
5. 366
6. 800
7. 30
8. 3, 11
9. 84
10. 540
11. 32 cm
12. 50
- 13.
14. 42, 6
15.  $\frac{3}{4}, \frac{1}{4}$
16.  $90 + 10$
17. true
18. hexagonal pyramid
19. 7
20. hexagon

### TUESDAY


1. 5.40
2. 4.5
3. 3.2
4. 90
5. 9.00
6.  $8\frac{1}{2}$
7. 52
8. 0.3
9. 7<sup>th</sup>
10. 1.0
11. 20
- 12.
13.  $\frac{1}{2} = 0.5$
14. 5
15. south-east
16. 60
17. 5.2
18. (a) 32 (b) even
19.  $\frac{1}{2}$  minute
20. B

### WEDNESDAY

1. 6.40
2. yes
3. octagonal pyramid
4. (a) 1347 (b) 2029
5.  $0.8 = \frac{8}{10}$
- 6.
7. 1.0
8. 10 or 5
9. 4
10. 8
11. 18.3
12. 900
13. \$90.50
14. IIII IIII IIII
15. 15 cm
16. 1000 m
17. 50
18. 80
19. 8
20. 9

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

## THURSDAY

- 9.40
- 16
- $\frac{1}{2}$
- 7, 11
- 31
- 19 909, 20 909, 21 909
- 36
- Friday
- $8 \times 7 = 56$  or  $7 \times 8 = 56$
- 0.6
- no
- A
- 2000 mm
- 7
- false
- south-west
- $10^{\text{th}}$
- 
- 200
- 10

## PROBLEM-SOLVING

### Monday

- \$6
- \$1.90

### Tuesday

- 3 in 4
- 12 hours



### Wednesday

- 12 hours 35 minutes
- 5 hours 30 minutes

### Thursday

- B
- B


## FRIDAY REVIEW

- 60
- (a) 2577 (b) 3031
- 1.0
- 0.5
- 24
- 3, 9
- 4.8
- 1700
- $\frac{1}{3}$
- \$1
- 10
- $8 \times 4 = 32$
- 100
- 6
- 2
- 3000 mm
- 30
- Monday
- 
- south-east
- $6^{\text{th}}$
- 6 cm
- hexagon
- 5.00
- 

## WEEK 27 – pages 80–82

### MONDAY



- 

- 25
- 4
- 8
- 1
- (a) 63 (b) 6.3
- 100
- \$5.20
- 0.7
- 2, 7
- spring
- false
- 1000
- 
- 4, 48
- 600
- \$42
- 8
- +
- A

## TUESDAY

- 0
- north-east
- 10 008
- (a) 947 (b) 1061
- 13
- 16
- $36 = 6 \times 6$
- 1.0
- 1000, 2000
- 2000
- triangle
- 600
- 35 mm
- parallelogram
- $0.3 = \frac{3}{10}$
- 10
- 800
- $\times$
- 30 minutes
- 22

## WEDNESDAY

- 
- \$1
- 0.89
- no
- 250
- 
- $100\,000 + 10\,000 + 1000 + 300 + 30 + 3$
- Teacher check
- obtuse
- 75
- 65
- 9907
- 4.5
- 4.4
- rectangular prism
- 50 050
- 700
- 30
- $\div$
- 1500

## THURSDAY

- 11.50
- 
- true
- 2.3

- \$360
- $\frac{1}{7}$
- 
- 10
- 50
- rectangle
- 3 April
- 100
- 40
- 4
- 30 033
- 
- 43 km
- 24
- 28
- 1.0

## PROBLEM-SOLVING

### Monday

- 3 in 4
- 3 in 4

### Tuesday

- C
- B


### Wednesday

- 8
- 8

### Thursday

- A
- B

## FRIDAY REVIEW

- 1006
- 1.0
- $24 = 4$
- \$4.80
- $100 + 24 = 124$
- 160
- 50
- 10
- 3, 7
- 21
- 11
- 1500
- 1.0
- 9909
- $\times$
- 800
- 1800
- 2
- yes
- 9500 m
- north-west
- circle
- 
- cylinder
- 1 in 4

## WEEK 28 – pages 83–85

### MONDAY



- 12.35
- $3000 \text{ mL} + 500 \text{ mL} = 3500 \text{ mL}$
- 0.2
- 50
- 35 mm
- (a) 44 (b) even
- 8, 16, 24, 32, 40, 48
- 190

- 36
- \$1.50
- 14
- 2, 3
- 12 087
- 8.1
- Teacher check
- 90
- 19.9
- 202, 2242
- 5
- 3.1

## TUESDAY

- $\frac{1}{8}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$
- 21
- Friday
- 10
- 60
- 2500 m
- 40
- yes
- (a) 6 (b) 600
- \$50.05
- 40
- 40
- 26
- 41
- 0.3
- a regular pentagon
- ll
- 49
- (a) 6 cm (b) 32 cm
- \$1

## WEDNESDAY

- 1.7
- 50
- $\frac{6}{8}$
- 76
- 3
- 24
- (a) B, 3 (b) H, 1 (c) E, 7
- 40 cm
- 27
- false
- Teacher check; 12 L
- 71
- $\div$
- 5
- 510
- (a) 6 (b) 4
- 
- (a) triangular prism (b) Teacher check
- 
- \$6.70

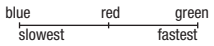
## THURSDAY

- 4
- 100
- 3500 kg
- parallel
- true
- $90^\circ$
- 8, 24
- 1170
- July

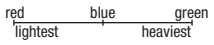

- AA
- 360
- 900
- 4
- $600 + 7 + 90$
- $3r + 1$
- $\times, \div$
- 0.4
- 701
- 3
- more

## PROBLEM-SOLVING

### Monday

- 80
- 

### Tuesday

- 
- 

### Wednesday

- rectangle
- rectangle, triangle

### Thursday

- 200 cm
- 60 cm

## FRIDAY REVIEW

- 0.8
- 5, 500
- 2022
- $7 + 800 + 30$
- 0.9
- $\frac{4}{6}$
- 53
- 650
- 3.9
- 27
- 1111, 2361
- 900
- 600
- 74
- 5
- false
- octagon
- 4
- A
- August
- parallelogram
- $X = 3 \text{ cm}$
- $P = 28 \text{ cm}$
- 4
- more

## WEEK 29 – pages 86–88

### MONDAY

- Teacher check
- 16
- $\frac{1}{4}$
- (a) right (b) east
- Wednesday
- 4.0
- (a) 28 (b) even
- (a) 36 (b) even
- 4
- \$18.80

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

- 3 m
- 1
- 6.0
- (a) 1 cm (b) 18 cm
- 130, 13 000
- 5
- 7
- 28
- 2800
- Teacher check; 4 red, 8 blue

## TUESDAY

- 28, 4
- B
- 25
- 72
- 1111, 1402
- 2100
- 31
- Wednesday
- 40
- \$4.50
- 13.5
- 
- 80
- (a) 50 (b) 500 (c) 200
- 12
- 
- even
- $\times$
- (a) 1279 (b) 986
- 30

## WEDNESDAY

- Teacher check
- \$7
- true
- 130
- 5.8
- 5
- 
- 10
- triangle and rectangle
- 18 months
- 15 000
- 4
- $3\frac{1}{2}$
- 354
- $70 + 42 = 112$
- 1 June
- 107, 117
- 30 km
- $8 \times 2$
- $\frac{3}{4}$

## THURSDAY

- 10
- 2.0
- 3D
- Teacher check
- 500
- 120
- 0.71
- 234
- 3 cm, 30 mm
- 6

- 81 001
- 6 km
- \$20, \$50, \$5
- 
- 2100
- rhombus
- 20
- 4 m
- $\frac{1}{4}$
- $\frac{3}{4}$

## PROBLEM-SOLVING

### Monday

- \$2.90
- $1200 \text{ m} = 1 \text{ km } 200 \text{ m} = 1.2 \text{ km}$

### Tuesday

- 500
- 4

### Wednesday

- 
- 

### Thursday

- Blue, Yellow, Blue
- Green, Pink, Pink, Pink, Green

## FRIDAY REVIEW

- $\times$
- 37 007
- (a) 713 (b) 911
- 93 003
- 8.0
- odd
- 40
- true
- 174
- (a) 5 (b) 25
- 77
- 210
- 0.5 m
- 1.05
- 4
- 5 cm
- October
- 3
- 35 km
- 3D
- 7
- NE
- $\frac{1}{4}$
- 200 cm
- more

## WEEK 30 – pages 89–91

### MONDAY

- $1, 1\frac{2}{4}, 2$
- $40 + 10$
- 8, 1, 3, 0
- 28, 4
- 499
- 12
- 406
- 29 February
- $3 \div 100 = 0.3$
- 800

- 6 cm
- 27
- 23
- 
- 
- 5
- 1.2
- false
- 29.8
- 

## TUESDAY

- 19
- 365
- A
- 10 years
- $\frac{8}{100} = 0.08$
- 240
- 3D
- 40
- 14
- 3, 5
- (a) 12 (b) 60 (c) 120 (d) 200
- 7.0
- 0.6
- 680
- $3 \times 5$
- 10
- 34
- $\frac{1}{2}$
- Teacher check
- 1.0

## WEDNESDAY

- 7.35
- $\frac{2}{100} = 0.02$
- 7
- 2600
- twelve
- 360
- 7.0
- have a likely chance
- 11.10
- (a) 2585 (b) 1956
- 106
- 32
- 67.5
- 12
- Teacher check colouring;  $\frac{1}{4}, \frac{2}{6}, \frac{3}{8}, \frac{3}{6}$
- 
- $\times, \div, 6$
- 1400
- Pour B twice and A once into C.

## THURSDAY

- 23
- 25
- 20
- Teacher check
- 4500 kg
- 
- 375
- (a)  $8 \text{ cm}^2$  (b)  $1 \text{ cm}^2$

- 
- 174 km
- 2.3
- \$2
- 6
- 3
- odd
- $12 \div 100 = 0.12$
- 
- 1.0
- \$1.55
- 2337

## PROBLEM-SOLVING

### Monday

- 16, 20
- 24

### Tuesday

- 12, 12
- 125

### Wednesday

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

### Thursday

- 
- 1.5 litres or  $1\frac{1}{2}$  litres

## FRIDAY REVIEW

- 10
- 400
- 
- even
- 38
- 11.7
- 500
- (a) \$15 (b) \$30 (c) \$30
- 2700
- 55c
- 175
- $7 \div 100 = 0.07$
- 41 400
- 49.2
- 175 mL
- A
- afternoon
- 12
- 36
- 8.50
- rectangle
- Teacher check; answers include September, October, November
- Pour A twice into C, then pour C into an empty B.
- 
- impossible

## WEEK 31 – pages 92–94

### MONDAY

- Tuesday
- odd
- 0.9
- (a) 1 gram (b) 10
- 8
- 29
- 7

- 84 310
- 1000
- (a) 100 (b) 1000
- 30
- $\frac{2}{3}$
- 30
- true
- 2 km
- 100

FAVOURITE SEASONINGS ON POTATO CHIPS – ROOM 12		
	TALLY	TOTAL
sea salt		14
chives		3
salt/pepper		7
chilli		4
paprika		2

- 5005

- 

- 6

## TUESDAY

- 4.35
- 15
- 150 mL
- 20
- 39
- square and triangle
- (a) 205 (b) 369 (c) 287
- 0.5
- 52
- 3.6
- 140 cm
- 600
- $\frac{2}{4}$
- Teacher check, 3 strawberries
- $\times 5$
- $\frac{1}{10}$
- $C = A + B$
- 9
- $\frac{10}{10}$
- B

## WEDNESDAY

- Sunday
- 500
- 32
- $\times 3$
- 1000 g
- 100 kg
- 17
- 110
- 10
- (a) 15 (b) odd
- $\frac{24}{100}$
- Teacher check
- (a) 88 (b) 176
- 34
- 1 in 6
- 6
- pentagonal pyramid
- 
- 
- Teacher check, 108 blue, 105 yellow, 107 green

## THURSDAY

- 55 km
- $25 + 17 = 42$

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

- \$2.80
- 12 pm
- 260 cm
- 150
- 5
- C
- \$12
- true
- 30 km
- 2500
- $\times 4$
- 1100
- C
- (a) 1483 (b) 1348
- 36
- 800
- 6.30 or half past 6
- $18 \div 100 = 0.18$

## PROBLEM-SOLVING

### Monday

- A and D, B and E, C and F

- Teacher check

### Tuesday

- guitar
- 15

### Wednesday

- 6
- 4

### Thursday

- 1600
- 12 and 9

## FRIDAY REVIEW

- 0.8
- (a) 6 (b) 6000
- $4000 + 200 + 10 + 7$
- 700
- (a) 400 (b) 4000
- 240
- 500
- 77
- \$12.50
- 49
- 1950
- $\frac{3}{4}$
- 100
- 12 357
- Tuesday
- 52 weeks
- 150 mL
- pentagonal prism
- 6
- 180 cm
- $C = 30$  km
- irregular pentagon
- 26 cm
- 4 cm
- 3 in 4

## WEEK 32 – pages 95–97

### MONDAY

- 4.40 or 20 to 5
- 27
- \$13.65
- 71
- $\times 5$

- 2800 m
- L**
- 100
- 7
- 6.15 pm
- sphere
- 25 May
- I**
- $\frac{8}{10} = 0.8$
- (a) \$1.60 (b) \$2.40 (c) \$4 (d) \$10
- an irregular
- 108
- even
- 6
- 5

## TUESDAY

- 12
- 60
- 1100
- Teacher check, 4 sharks
- 3200 m
- \$2.90
- \$4
- $A <, B =, C >$
- (a) 4 (b) 8 (c) 16 (d) 32

- 42

- 10 mm

- 0.2

- 400 m

- 1.0

- 5.5

- odd

- (a) odd (b) even

- 40 km

- (a) 3 (b) 300

- kite

## WEDNESDAY

- 12.40
- 30
- (a) 9 (b) 27
- 74
- 120
- 870
- 10
- 100
- 200
- Teacher check
- 3 in 6 or 1 in 2
- 49
- 1988
- $\times 3$
- 3.6
- 28 cm
- $4\frac{1}{2}, 3$
- 800
- 1900
- 1500

## THURSDAY

- 6.32, 6.51, 7.13
- 130
- 1300
- $9, 8\frac{3}{4}$

- 1910
- \$1.95
- NE
- Mildura
- 46
- 0.17
- 1050
- 31
- 7
- (a) 16 (b) 64
- 17
- \$2
- 100 000, 10 000, 1000, 100, 10
- Answers will vary.
- 11.4
- 20 km

## PROBLEM-SOLVING

### Monday

- \$10
- 4

### Tuesday

- 900
- 8740

### Wednesday

- 26
- 260

### Thursday

- B
- C

## FRIDAY REVIEW

- 150
- 8
- (a) 77 (b) 154
- 37
- 27 027
- 2, 3, 4
- 10 010
- $0.09 = \frac{9}{100}$
- 70.7
- $\times 4$
- \$1.95
- 8
- 4
- 1000
- 200
- 3900 m
- 1996
- Teacher check
- 4 pm
- 850 cm
- cone
- 8 cm
- \$1
- 10 km
- odd or even

## WEEK 33 – pages 98–100

### MONDAY

- 30
- 700
- 12 km
- 12
- 6
- (a) 25 (b) 125 (c) 625
- 14
- D

- 2, 3, 6, 9
- 950
- Teacher check
- 10.0
- 106
- 250 m
- (a) 54 (b) 9
- 6
- (a) 13 (b) 20 (c) 65
- E**
- Teacher check; 9 blue, 3 green, 2 yellow
- $1\frac{1}{2}$

## TUESDAY

- 1.7
- (a) 24 496 (b) 30 862
- 4
- 500 m
- 31
- A and D
- Teacher check
- 12, 72
- $\frac{17}{3}, 5\frac{2}{3}$
- 8
- 9100 m
- \$12
- 60.6
- 10 000 g
- 
- 20 km
- $\frac{1}{6}$
- \$23.60
- 9.20
- 90

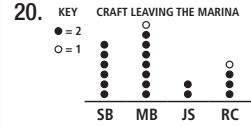
## WEDNESDAY

- $\div$
- \$1
- (a) 36 (b) 216 (c) 1296
- 500 g
- Teacher check
- $\frac{2}{3}, 1\frac{1}{3}, 2\frac{1}{3}$
- 8 t
- 396
- 
- \$7.50
- 98
- 70
- 20.2
- 12
- 9
- true
- III III III II
- 27
- 7
- 32

## THURSDAY

- 10.25
- (a) 0.11 (b) 11
- July
- 3 cm
- Teacher check
- 100
- 36
- $4 \times 7 = 28$
- 2300 m
- SE
- 7760

- 20
- 170
- (a) 49 (b) 343 (c) 2401
- 11
- 1600
- 2500
- 250 mL
- 12, 15, 4, 7, Total = 38



## PROBLEM-SOLVING

### Monday

- \$60
- 150

### Tuesday

- 50
- 750 km

### Wednesday

- B and C
- $\frac{3}{8}$

### Thursday

- 50 g
- 250 g

## FRIDAY REVIEW


- 30 km
- 200
- 895
- 9
- 16
- 40 040
- \$900
- 23 970
- 42
- $\div$
- (a) 343 (b) 625 (c) 216
- 48
- 40.4
- \$10
- 60
- Teacher check
- 15 km
- Teacher check; answers include March, April, May
- 250 g
- north-west
- 
- 31
- octagon
- III III III III
- 8

## WEEK 34 – pages 101–103

### MONDAY

- 2.05
- 1
- odd
- 3.7
- \$5
- $\frac{1}{5}$
- 8200 g
- 15 kg
- 100 cm
- (a) 512 (b) 343 (c) 729
- XYZ


# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

- 365
- 5
- 250 cm
- 55
- $\frac{91}{10}$
- 
- 10.5
- (a) 64  
(b) 512  
(c) 4096
- 404

## TUESDAY


- Monday
- 36
- 4300 m
- 500 mL
- (a) 99 (b) 0.99
- (a) 2.35 pm  
(b) 3.35 pm  
(c) 3.55 pm  
(d) 4.40 pm  
(e) 5.20 pm
- $\frac{7}{2}$
- 66
- 900
- 10.0
- 900
- 1
- 0.1
- B
- \$1700, \$900, \$2600
- 300
- 1
- 250
- 85 km
- 20 km

## WEDNESDAY

- 6.25
- 99 999
- 720 cm
- (a) 208 (b) 189 (c) 225
- 12
- 
- 1400
- +
- 4
- (a) 9.30 am  
(b) 11.00 am
- 38
- 30.9
- $4 \times 6 = 24$
- 500 m
- 8.6
- (a) 3 in 6 or 1 in 2  
(b) 1 in 6
- circle and rectangle
- 2950
- $\frac{19}{6}$
- 150

## THURSDAY

- \$9
- 150
- 5
- (a) 15 (b) 18  
(c) 30 (d) 100

- $1\frac{2}{3}$
- 109 999
- 300
- 8
- 2 in 4 or 1 in 2
- 1500
- 20 cm
- $1\frac{1}{3}, 1\frac{2}{3}$
- 24
- 31
- ÷
- (a) 81 (b) 729 (c) 6561
- 
- 4
- $5 \times 8 = \$40$
- 40 009

## PROBLEM-SOLVING

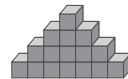
### Monday

- 12, 36, 48, 60
- 9

### Tuesday

- scalene triangle, equilateral triangle and square or rectangle
- square, triangle, hexagon

### Wednesday

- 
- 250 cm

### Thursday


- $4\frac{1}{2}$  cups
- $\frac{3}{4}$  cup

## FRIDAY REVIEW

- 27
- \$1400, \$700, \$2100
- 14
- 290
- (a) 32 (b) 64
- 18 089
- (a) 266 (b) 272  
(c) 315
- $2 \times 14 = 28$
- 8.9
- 1500
- $\frac{1}{6}$
- $\frac{10}{3}$
- ÷
- 853
- 1300
- 9, 18, 27, 36
- 300
- 4.5
- 1.30
- 317
- Teacher check
- 750 m
- 24 km
- 20 cm
- 2 in 4

## WEEK 35 – pages 104–106

### MONDAY

- Thursday
- 4.0
- (a) 41 (b) 410
- 98
- 0.06
- 49
- 750 mL
- ÷
- 150
- 9500 g
- square-based pyramid
- 60
- 600
- $\frac{11}{2}$
- $\frac{2}{3}, \frac{4}{6}$
- (a) \$50 (b) \$200
- 
- 6.9
- $40 + 2 = 42$
- 695, 785


### TUESDAY

- 5.55
- 51.5
- false
- \$20.35
- 600 m
- 900 or 1000
- 1
- (a) 6 pm (b) 8.30 pm  
(c) 11.30 am
- A
- $90 + 12 = 102$
- \$7
- 22
- 61
- 100 999
- 7, 9
- 4.9
- ÷
- Teacher check
- 96
- 803

### WEDNESDAY

- $8\frac{1}{2}$  cm<sup>2</sup>
- 80
- 90
- polyhedron
- 47
- acute
- \$2.20
- 3 in 6 or 1 in 2
- 10 000, 1000, 100, 10
- 6 cm
- 1.9
- 10.1
- 10 000 g
- (a) 50.5 (b) 505
- yes
- 9990
- Teacher check
- triangular pyramid
- 1 min, 75 secs, 1.5 min,  
97 secs, 101 secs
- 5, 7

### THURSDAY

- 12.15
- 24
- 30, 90, 108
- 13 cm<sup>2</sup>
- (a) 80.2 (b) 802
- 
- yes
- 1248
- 700 m
- 200
- \$1
- (a) 63 (b) 9
- obtuse
- 850
- 15 months
- Sunday
- 30 km
- $\frac{9}{2}$
- $\frac{4}{6}$

## PROBLEM-SOLVING

### Monday

- 8 days or 4 weekends
- 4 hours 0 minutes

### Tuesday

- 16
- 18


### Wednesday

- Answer will vary.
- 9

### Thursday

- 138
- $14\frac{1}{2}$

## FRIDAY REVIEW

- 70
- 9752
- 36
- yes
- 100 000
- (a) 216 (b) 343 (c) 512
- $\frac{11}{3}$
- 11
- 30, 7, 90, 21, 111
- 9990
- 5.9
- 750 mL
- 799
- 80
- 72
- 5 cm
- Sunday
- 800 m
- pentagonal pyramid
- 18 km
- 11.00
- 8800 g
- 20 km
- 
- 3 in 6 or 1 in 2

## WEEK 36 – pages 107–109

### MONDAY

- 
- \$4

- 100
- 45
- 32 509
- 7, 120, 21, 141
- 550
- 875
- 7.8
- 80
- \$6.70
- March
- 40
- $\frac{3}{10}$
- 16
- 750 m
- 580
- \$800, \$350, \$160,  
Total = \$1310
- north-west
- north-east

## TUESDAY


- 1045
- 1.00
- 5 cm<sup>2</sup>
- 42
- 7.20
- 90 890
- (b) 117
- \$360
- 6000 km
- 24
- $8\frac{1}{2}$  hrs
- 9
- \$1600, \$800, \$320,  
Total = \$2720
- 27
- $\frac{14}{100} = 0.14$
- yes
- \$4
- 10
- $4 \times 12 = 48$
- 76

## WEDNESDAY

- 
- 72
- 7G
- (a) 1000 (b) 5000
- 152
- 21, 7
- 7
- 550 m
- 174
- 4
- irregular polygon
- \$24
- 1000
- no
- 4400 g
- $6\frac{2}{5}$
- October
- 
- 0
- 1050

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS

## THURSDAY

- 1012
- 5.8
- 30
- (a) hexagon  
(b)  $7 \text{ cm}^2$
- \$53
- 3, 3, 120, 12, 132
- 1 in 6
- 29
- 30 km
- 100
- 
- north-east
- 750 g
- $1\frac{2}{5}$
- B, C
- $\frac{1}{2}, \frac{1}{3}, \frac{1}{8}, \frac{1}{10}$
- 1500
- 23 November
- (a) 31 (b) even
- (a) 10.1 (b) 0.101

### PROBLEM-SOLVING

#### Monday

- 5, 8, 2, 7
- 9

#### Tuesday

- 25
- 85


#### Wednesday

- Teacher check
- 190 mm

#### Thursday

- 40 g
- 250 g

### FRIDAY REVIEW




- 40, 5, 135
- 10 702
- 1081
- 46
- 101
- 46 078
- $\frac{7}{10}$
- 2000
- $\div$
- 156
- 6
- \$700, \$350, \$140,  
Total = \$1190
- 7.8
- 0
- 30
- 
- July
- south-east
- 28 cm
- $\frac{3}{4}$
- no
- 25 October
- hexagon
- 8 square units
- 3 in 6 or 1 in 2

## WEEK 37 – pages 110–112

### MONDAY

- $0.08 = \frac{8}{100}$
- $\frac{1}{4}$
- $\frac{1}{4} = \frac{2}{8}$
- Teacher check
- 40 cm
- 10.01
- 9.40
- 9
- 45
- 1
- 15
- 31
- 1000
- (a) pentagon  
(b)  $8 \text{ cm}^2$  (c)  $6 \text{ cm}^2$
- (a)  $2 \text{ cm}^2$   
(b) rectangle
- 18. Teacher check
- back row, third from right
- front row, first on the left



### TUESDAY

- 
- (a) 48 (b) 96
- 1 in 6
- hexagonal prism
- 750 mL
- 0
- 40
- 
- $\times$
- 10 000
- (a) 6 cm (b) 2 cm
- (a) 33 (b) odd
- June
- 143
- Teacher check
- 36
- 130
- 8808
- 15
- 

### WEDNESDAY

- 310
- 400
- 500 g
- 1304
- 8
- \$4.40
- 250 m
- even
- 52
- false
- 1000
- $\frac{46}{5}$
- 3, 4
- \$10
- $\frac{5}{10} = \frac{1}{2}$
- 168
- triangle
- 2330
- 5
- (a) greatest value = 1  
(b) smallest value = 7

## THURSDAY


- 
- 400
- $8\frac{2}{5}$
- 12 am
- 7
- 9
- 1, 12
- 0.9
- 26
- 7
- 
- Teacher check; red = 6, yellow = 5, blue = 7
- Friday
- (a) 290 (b) 29
- 300
- Teacher check  
colouring;  $\frac{2}{3}, \frac{3}{4}, \frac{5}{6}$
- 99
- rhombus
- $\frac{7}{10}$
- 0.4

### PROBLEM-SOLVING

#### Monday

- A
- A

#### Tuesday

- | Right angles | Acute angles | Obtuse angles |
|--------------|--------------|---------------|
| A            | E            | B             |
| B            |              | C             |
- 



#### Wednesday

- 40
- $0.5$  or  $\frac{1}{2}$  second

#### Thursday


- 6
- Teacher check, rectangle

### FRIDAY REVIEW



- 6016
- 0.05
- 
- $\frac{1}{3} = \frac{2}{6}$
- 3673
- 1250 m
- $3\frac{1}{8}$
- 120
- 130
- 6, 8, 12
- 490
- (a) 42 (b) 84
- 36
- 991
- 7717
- triangle
- 750 m
- 4.40
- yes
- September
- 
- A
- 2 units
- 3 in 6 or 1 in 2
- 2 in 6 or 1 in 3

## WEEK 38 – pages 113–115


### MONDAY

- 
- true
- 5
- kite
- 11 101
- 4
- 26 June
- 1500
- $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}$
- 1 in 8
- 3
- 250
- 7310
- \$16.50
- \$8.25
- no
- 9.9
- (a) irregular octagon  
(b) 7 square units
- 9
- 11

### TUESDAY


- 19 910
- 1
- 50 kg + 45 kg
- 894
- 470
- 2
- even
- 36
- false
- 1 km
- 
- $20 \text{ r } 3 = 20\frac{3}{5}$
- 700
- 4400
- (a) irregular octagon  
(b) 6 square units
- 250 mL
- Teacher check, shape B
- $3 \times 4 = 12$ ,  
 $4 + 4 + 4 = 12$
- $\frac{4}{8}$
- 

### WEDNESDAY

- 
- 2
- 2
- 5
- 2100
- (a) 8 (b) 4  
(c) 6 (d) 9
- 58
- 2700
- 200
- 99
- 1000 cm
- 8 cm

- Teacher check; answers include June, July, or August
- Yes
- 56
- 750 m
- 50 g, 7
- even
- 2600
- $\div$

## THURSDAY

- Saturday
- \$10
- 5800
- 27
- 4 in 8
- 
- +
- 400
- (a) 100 (b) 1000
- 5.4
- 990
- 1200
- trapezium
- 510
- $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$
- 1600
- odd
- 32
- 100
- (a) irregular octagon  
(b) 8 square units

### PROBLEM-SOLVING

#### Monday

- 375
- 80 km

#### Tuesday

- 25
  - Teacher check
- Wednesday
- 19 or \$3.80
  - 12


#### Thursday

- 125 km
- 2.36

### FRIDAY REVIEW

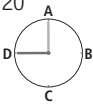
- $2\frac{1}{8}$
- $\frac{7}{100} = 0.07$
- 1985
- \$28.50
- 1600
- 29
- 9909
- 150
- 38
- 10
- 4
- 27, 27
- $\div$
- 2999, 3876, 3978,  
4011
- $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$
- 30
- Wednesday
- 12

# NEW WAVE MENTAL MATHS (BOOK D) – ANSWERS



19.   
 20. 1 m  
 21. 55 kg + 45 kg  
 22. Teacher check  
 23. 750 mL  
 24. hexagon  
 25. 2 in 8 or 1 in 4

## WEEK 39 – pages 116–118

### MONDAY



1. 20  
 2.   
 3. 1 January  
 4. 19  
 5. 7  
 6. 950  
 7. 25  
 8. 1  
 9. 350  
 10. 80  
 11. 590  
 12. 2  
 13. 1548  
 14. ÷  
 15. 1.0  
 16. 5 cm  
 17. 32  
 18. 100  
 19. 13  
 20. \$2.55

### TUESDAY



1.   
 2. 17  
 3. 800  
 4. 132  
 5. 60  
 6. 820  
 7. 1950  
 8. Kathleen  
 9. 4.2  
 10. (b) 3.0  
 11. 520  
 12. 6  
 13. 20 km  
 14. litres  
 15. 57 hours or 2 days and 9 hours  
 16. 600  
 17.   
 18. aqua and blue  
 red and green  
 19. \$11.40  
 20. \$3.60

### WEDNESDAY

1. 21 196  
 2. 34  
 3.   
 4.   
 5. 32  
 6. \$89.50

7. 8  
 8. 160  
 9.   
 10. 4  
 11. 5500 mL  
 12. 55  
 13. 9  
 14. 8  
 15. 1 in 4  
 16. 17, 107, 1007, 10 007  
 17.  $\frac{20}{3} = 6\frac{2}{3}$   
 18. 50 c  
 19.  $\frac{1}{2}$  L or  $\frac{2}{4}$  L  
 20. 

### THURSDAY

1.   
 2. 4000  
 3. 5 r 3  
 4. (a) 12 (b) 0  
 5. 1400  
 6. 7  
 7. 1800 m  
 8. 5.0  
 9. 5732  
 10. 250 mL  
 11. 5  
 12. 230  
 13. 0.1  
 14.   
 15. row  
 16. 690  
 17. SW  
 18. \$1.10  
 19. 2500  
 20.  $88 \div 8 = 11$

### PROBLEM-SOLVING

#### Monday

1. 8 and 9  
 2. 225 minutes or 3 hours 45 minutes

#### Tuesday

1. 32  
 2. Teacher check

#### Wednesday

1.  $\frac{3}{10}$   
 2. 0.4

#### Thursday

1. 6  
 2. 18


### FRIDAY REVIEW

1. 890  
 2. 575  
 3. 98 763  
 4.  $0.11 = \frac{11}{100}$   
 5. (a) 144 (b) 128 (c) 112  
 6. 10.0  
 7. 1510  
 8. 530  
 9. 38  
 10. 50c  
 11. 800  
 12. (a) 49 (b) 98  
 13. 19.9


14. \$6.55  
 15. 10 034  
 16.   
 17. 44 km  
 18. 7  
 19. thirtieth  
 20. SE  
 21.   
 22. 750 mL  
 23. 1300 m  
 24.   
 25. 0 in 4

## WEEK 40 – pages 119–121

### MONDAY


1. 6 r 5  
 2. 700  
 3.  $90 + 4 = 94$   
 4. 1.0  
 5. 250 m  
 6. \$200  
 7. 4 in 8  
 8.   
 9. Sunday  
 10. 180 minutes  
 11. –  
 12. Teacher check  
 13. February  
 14.  $10 \times 2.7$   
 15.  $A >$ ,  $B =$ ,  $C <$   
 16. 8.9  
 17. 9909  
 18. 5  
 19. F, 4  
 20. 1, 3

### TUESDAY

1.  $40 \div 4 = 10$   
 2. 10.0  
 3. 10, 14, 30  
 4. Teacher check, XYZ  
 5. 29 February  
 6. 52  
 7. true  
 8. 30  
 9. 750 g  
 10.  $10 \times 17.1$   
 11.  $9\frac{1}{2}$  hours  
 12.   
 13. 250 kg  
 14. (a) 60 (b) even  
 15. Teacher check, 10  
 16. 10 000  
 17. 20.2  
 18. 486,  $\times 3$   
 19. 50 011  
 20. 237

### WEDNESDAY

1. 2.55  
 2. 1200  
 3. 1.9

4. 8000  
 5. parallelogram  
 6. 500 kg  
 7. 31 December  
 8.  $\frac{42}{10}$   
 9. Sunday  
 10. 210  
 11. to measure the length of an oval  
 12. 1400 mL  
 13. 99 900  
 14.  $0.9 = \frac{9}{10}$   
 15. 365  
 16.   
 17. vertical  
 18. 1875,  $\times 5$   
 19. \$30  
 20. \$33

### THURSDAY

1. 600  
 2. Teacher check, cylinder  
 3.  $\times$   
 4. 1980  
 5. 16 000  
 6. 1.8  
 7. pm  
 8. ÷  
 9. Teacher check  
 10.  $\frac{3}{4}$   
 11. 3 m  
 12.  $\frac{21}{100}$  or 0.21  
 13. 94  
 14. 90 909, 90 910  
 15.  $\frac{2}{10}$   
 16. 23  
 17. true  
 18. **bye**  
 19. 100 km  
 20.  $19 + 15 = 34$

### PROBLEM-SOLVING

#### Monday

1. 75 m  
 2. 225 m

#### Tuesday

1. 300  
 2. 20

#### Wednesday

1. 700 m<sup>2</sup>  
 2. 800 m<sup>2</sup>

#### Thursday

1. 9 cm<sup>2</sup>  
 2. 36 cm<sup>2</sup>

### FRIDAY REVIEW

1. 120  
 2. 10 000  
 3.  $\frac{3}{4}$   
 4. 21, 33, 45  
 5. \$8  
 6. even  
 7. (a) – (b) 600  
 8. 117  
 9. ÷  
 10. 90 119  
 11. 28  
 12. 70

13. 267  
 14. 1.45  
 15. 31 December  
 16. 500 kg  
 17. (a) 175 km (b) 90 km  
 18. 250 mL  
 19. **25**  
 20. 250 mL  
 21. kite or rhombus  
 22. 55 km  
 23. 12 pm  
 24.  $B + C + A$   
 25. 1 in 8