

The companion pack

Free printable extras for the paperback. Print any page as often as you need it.

What this pack is

This is the free companion pack for the paperback Ontario Grade 3 Math Workbook by Brandon Robert, an Ontario Certified Teacher. It holds the three things the book says are here: a printable progress chart, extra practice, and the answer keys. It is free, it needs no email address, and you may print it as many times as you like for your own children.

The progress chart (page 2 of this pack)

The same chart as page 6 of the book. Print a fresh one whenever a child restarts, or print one for a second child. Write the date and the Check score each time.

Ten extra practice pages (pages 3 to 12)

One mixed page for each of the ten units. Every question here is new: none of them is printed anywhere in the book. Use a page when a Unit Check comes back at seven or fewer out of ten and the child has already redone the unit, or use it months later to see whether the work held.

The answer keys

First the keys for the ten extra pages, then the book's own keys, each one labelled with the page of the book it belongs to. Mark right or wrong, then look for the pattern in the wrong ones.

What this pack is not

It is not a government publication, and it is not published, endorsed, approved or reviewed by the Ontario Ministry of Education, by EQAO or by any school board. It is not a test, and a score in it does not predict a report card mark. It does not replace the book: the diagnostic check, the teaching pages and the worked examples are in the paperback.

Copyright © 2026 Brandon Robert. One family or one household may print these pages for its own children. Questions and corrections: admin@milestoneteachers.ca.

Progress chart

one line per unit

Write the date and the Check score each time. Seeing the column fill up is a large part of why children keep going.

UNIT	DATE STARTED	CHECK SCORE	DONE AGAIN? SCORE
Start-of-Year Check	_____	_____	_____
Unit 1: Numbers to 1000	_____	_____	_____
Unit 2: Rounding and Mental Math	_____	_____	_____
Unit 3: Adding and Subtracting to 1000	_____	_____	_____
Unit 4: Multiplication and Division	_____	_____	_____
Unit 5: Fractions and Fair Shares	_____	_____	_____
Unit 6: Patterns, Equations and Variables	_____	_____	_____
Unit 7: Data and Probability	_____	_____	_____
Unit 8: Shapes, Structures and Movement	_____	_____	_____
Unit 9: Length, Perimeter, Time and More	_____	_____	_____
Unit 10: Area and Money	_____	_____	_____
Timed fact pages	_____	_____	_____
End-of-Year Check	_____	_____	_____

Eight or more out of ten on a Check means move on. Seven or fewer means go back to the pages named under that Check, then try it again in a week. A score that goes up on the second try is the whole point of the chart.

Unit 1 extra practice

10 questions, none of them in the book

Name _____

Date _____

1. In 326, what is the digit 2 worth? _____
(tens place)
2. In 945, what is the digit 9 worth? (hundreds place) _____
3. In 603, what is the digit 6 worth? (hundreds place) _____
4. In 179, what is the digit 9 worth? (ones place) _____
5. 237 ___ 930 _____
6. 466 ___ 679 _____
7. 533 ___ 898 _____
8. 507 ___ 747 _____
9. $553 = 500 + \underline{\quad} + 3$ _____
10. $970 = 900 + \underline{\quad} + 0$ _____

Unit 2 extra practice

10 questions, none of them in the book

Name _____

Date _____

1. Round 431 to the nearest ten. _____ 2. Round 101 to the nearest ten. _____

3. Round 741 to the nearest ten. _____ 4. Round 835 to the nearest ten. _____

5. Round 839 to the nearest hundred. _____ 6. Round 674 to the nearest hundred. _____

7. Round 868 to the nearest hundred. _____ 8. Round 331 to the nearest hundred. _____

9. $310 + 230$ _____ 10. $580 + 300$ _____

Unit 3 extra practice

10 questions, none of them in the book

Name _____

Date _____

1. $230 + 124$ _____

2. $333 + 310$ _____

3. $535 + 148$ _____

4. $344 + 127$ _____

5. $421 - 247$ _____

6. $766 - 501$ _____

7. $357 - 181$ _____

8. $348 - 256$ _____

9. $___ + 161 = 552$ _____

10. $___ + 154 = 449$ _____

Unit 4 extra practice

10 questions, none of them in the book

Name _____

Date _____

1. 2×6

2. 5×4

3. 2×9

4. 1×5

5. $14 \div 7$

6. $14 \div 2$

7. $30 \div 3$

8. $40 \div 4$

9. $5 \times \underline{\quad} = 40$

10. $6 \times \underline{\quad} = 18$

Unit 5 extra practice

10 questions, none of them in the book

Name _____

Date _____

1. Share 16 items fairly among 8 people. How many does each person get? _____

2. Share 18 items fairly among 2 people. How many does each person get? _____

3. Share 5 items fairly among 5 people. How many does each person get? _____

4. Share 8 items fairly among 8 people. How many does each person get? _____

5. Share 1 item fairly among 3 people. How much does each person get? _____

6. Share 3 items fairly among 4 people. How much does each person get? _____

7. Share 7 items fairly among 8 people. How much does each person get? _____

8. Share 2 items fairly among 5 people. How much does each person get? _____

9. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$ _____

10. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ _____

Unit 6 extra practice

10 questions, none of them in the book

Name _____

Date _____

1. 60, 85, 110, 135, ____, ____

2. 58, 108, 158, 208, ____, ____

3. 60, 66, 72, 78, ____, ____

4. 24, 26, 28, 30, ____, ____

5. 26, ____, 46, 56, 66

6. 7, 9, 11, ____, 15

7. 36, ____, 40, 42, 44

8. 27, 30, ____, 36, 39

9. $a + 64 = 342$. What is a ?

10. $m - 52 = 119$. What is m ?

Unit 7 extra practice

10 questions, none of them in the book

Name _____ Date _____

For the chance questions, write one of these words: impossible, unlikely, equally likely, likely, certain.

1. Find the mean of 24, 9, 6, 7, 14. _____ 2. Find the mean of 13, 15, 21, 27. _____

3. Find the mean of 4, 16, 23, 37. _____ 4. Find the mean of 6, 35, 19. _____

5. Find the mode of 10, 17, 17, 19. _____ 6. Find the mode of 9, 19, 7, 9. _____

7. Find the mode of 4, 4, 13, 18. _____ 8. Find the mode of 1, 14, 1, 16. _____

9. A number cube rolled once will show a number less than 7. _____ 10. A coin you flip will land heads up. _____

Unit 8 extra practice

10 questions, none of them in the book

Name _____

Date _____

1. How many edges does a cube have? _____
2. You are facing north. You make a half turn counter-clockwise. Which way are you facing now? _____
3. You are facing north. You make a half turn clockwise. Which way are you facing now? _____
4. You are facing north. You make three quarter turns counter-clockwise. Which way are you facing now? _____
5. You are facing west. You make a half turn counter-clockwise. Which way are you facing now? _____
6. Rectangle A is 4 cm by 7 cm. Rectangle B is 7 cm by 4 cm. Are they congruent? _____
7. Rectangle A is 3 cm by 3 cm. Rectangle B is 3 cm by 3 cm. Are they congruent? _____
8. Rectangle A is 3 cm by 2 cm. Rectangle B is 5 cm by 2 cm. Are they congruent? _____
9. Rectangle A is 5 cm by 3 cm. Rectangle B is 8 cm by 3 cm. Are they congruent? _____
10. A solid has 7 faces, 12 edges and 7 vertices. What is it? _____

Unit 9 extra practice

10 questions, none of them in the book

Name _____

Date _____

1. A rectangle is 15 cm long and 2 cm wide. What is its perimeter? _____
2. A rectangle is 10 cm long and 5 cm wide. What is its perimeter? _____
3. A rectangle is 15 cm long and 10 cm wide. What is its perimeter? _____
4. A rectangle is 11 cm long and 10 cm wide. What is its perimeter? _____
5. 300 cm = ____ m _____
6. 4 m = ____ cm _____
7. 5 m = ____ cm _____
8. 60 mm = ____ cm _____
9. 480 seconds = ____ minutes _____
10. 540 seconds = ____ minutes _____

Unit 10 extra practice

10 questions, none of them in the book

Name _____

Date _____

1. A rectangle is 7 cm by 2 cm.
What is its area?

2. A rectangle is 10 cm by 11 cm.
What is its area?

3. A rectangle is 4 cm by 6 cm.
What is its area?

4. A rectangle is 8 cm by 11 cm.
What is its area?

5. A rectangle has an area of 45 cm^2 and is 5 cm long. How wide is it?

6. A rectangle has an area of 88 cm^2 and is 8 cm long. How wide is it?

7. A rectangle has an area of 54 cm^2 and is 9 cm long. How wide is it?

8. A rectangle has an area of 24 cm^2 and is 8 cm long. How wide is it?

9. A snack costs \$0.25. You pay with a \$1 coin. How much change?

10. A pack of seeds costs \$0.95. You pay with a \$1 coin. How much change?

Answer keys: the extra practice pages

check, do not re-teach from scratch

Eight or more out of ten means the unit has held. Seven or fewer means go back to that unit in the book.

Unit 1 extra practice • Numbers to 1000

this pack, page 3

1. 20	2. 900	3. 600	4. 9
5. <	6. <	7. <	8. <
9. 50	10. 70		

Unit 2 extra practice • Rounding and Mental Math

this pack, page 4

1. 430	2. 100	3. 740	4. 840
5. 800	6. 700	7. 900	8. 300
9. 540	10. 880		

Unit 3 extra practice • Adding and Subtracting to 1000

this pack, page 5

1. 354	2. 643	3. 683	4. 471
5. 174	6. 265	7. 176	8. 92
9. 391	10. 295		

Unit 4 extra practice • Multiplication and Division

this pack, page 6

1. 12	2. 20	3. 18	4. 5
5. 2	6. 7	7. 10	8. 10
9. 8	10. 3		

Unit 5 extra practice • Fractions and Fair Shares

this pack, page 7

1. 2	2. 9	3. 1	4. 1
5. $\frac{1}{3}$	6. $\frac{3}{4}$	7. $\frac{7}{8}$	8. $\frac{2}{5}$
9. $\frac{3}{5}$	10. $\frac{6}{8}$		

Unit 6 extra practice • Patterns, Equations and Variables

this pack, page 8

1. 160, 185	2. 258, 308	3. 84, 90	4. 32, 34
5. 36	6. 13	7. 38	8. 33
9. 278	10. 171		

Unit 7 extra practice • Data and Probability

this pack, page 9

1. 12	2. 19	3. 20	4. 20
5. 17	6. 9	7. 4	8. 1
9. certain	10. equally likely		

Unit 8 extra practice • Shapes, Structures and Movement

this pack, page 10

1. 12	2. south	3. south	4. east
5. east	6. yes	7. yes	8. no
9. no	10. a hexagon-based pyramid		

Unit 9 extra practice • Length, Perimeter, Time and More

this pack, page 11

1. 34 cm	2. 30 cm	3. 50 cm	4. 42 cm
5. 3	6. 400	7. 500	8. 6
9. 8	10. 9		

Answer keys: the extra practice pages

check, do not re-teach from scratch

Unit 10 extra practice · Area and Money

this pack, page 12

1. 14 cm²

2. 110 cm²

3. 24 cm²

4. 88 cm²

5. 9 cm

6. 11 cm

7. 6 cm

8. 3 cm

9. \$0.75

10. \$0.05

Answer keys

check, do not re-teach from scratch

Mark right or wrong, then look for the PATTERN in the wrong ones. Where an answer can be written more than one way, the key says so.

Start-of-Year Check

book page 8

- | | | | |
|-----------|-------------------|-----------------------|-----------|
| 1. 900 | 2. < | 3. 580 | 4. 100 |
| 5. 840 | 6. 241 | 7. 10 | 8. 4 |
| 9. 2 | 10. $\frac{3}{4}$ | 11. 44, 49 | 12. 41 |
| 13. 11 | 14. 12 | 15. 8 | 16. 8 |
| 17. 22 cm | 18. 7000 | 19. 18 cm^2 | 20. 12 cm |
| 21. 50 | 22. 10 | 23. 7 | 24. 5 |

Unit 1 • Hundreds, tens and ones

book page 15

- | | | | |
|--------|--------|--------|--------|
| 1. 188 | 2. 367 | 3. 185 | 4. 474 |
| 5. 303 | 6. 366 | | |

Unit 1 • What is each digit worth?

book page 16

- | | | | |
|--------|--------|-------|-------|
| 1. 400 | 2. 2 | 3. 60 | 4. 8 |
| 5. 700 | 6. 400 | 7. 30 | 8. 50 |
| 9. 900 | 10. 10 | | |

Unit 1 • Expanded form

book page 17

- | | | | |
|-------------------|-------------------|-------------------|-------------------|
| 1. $200 + 3$ | 2. $200 + 70 + 6$ | 3. $400 + 40 + 8$ | 4. $700 + 40 + 6$ |
| 5. $400 + 30 + 3$ | 6. $500 + 50 + 5$ | 7. $500 + 50 + 9$ | 8. $100 + 90 + 6$ |

Unit 1 • Taking numbers apart

book page 18

- | | | | |
|--------|--------|--------|-------|
| 1. 600 | 2. 700 | 3. 700 | 4. 8 |
| 5. 200 | 6. 6 | 7. 200 | 8. 20 |
| 9. 5 | 10. 10 | | |

Unit 1 • Numbers in words

book page 19

- | | | | |
|----------------------------|-------------------------------|----------------------------|----------------------------|
| 1. 264 | 2. 921 | 3. 647 | 4. 983 |
| 5. 572 | 6. three hundred ninety-seven | 7. four hundred thirty-one | 8. seven hundred sixty-six |
| 9. nine hundred sixty-nine | 10. two hundred eighty-nine | | |

Unit 1 • Bigger, smaller, the same

book page 20

- | | | | |
|-------|-------|-------|-------|
| 1. > | 2. < | 3. < | 4. < |
| 5. > | 6. < | 7. < | 8. < |
| 9. > | 10. < | 11. > | 12. > |
| 13. > | 14. < | 15. < | |

Unit 1 • Putting numbers in order

book page 21

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. 162, 497, 821, 893 | 2. 842, 920, 960, 992 | 3. 145, 448, 722, 740 | 4. 664, 700, 707, 918 |
| 5. 212, 431, 636, 767 | 6. 327, 463, 786, 808 | 7. 330, 447, 556, 735 | 8. 408, 424, 544, 905 |

Unit 1 • Counting by 50s, 100s and 200s

book page 22

- | | | | |
|-------------|-------------|-------------|--------------|
| 1. 250, 300 | 2. 450, 500 | 3. 400, 500 | 4. 800, 1000 |
| 5. 500, 600 | 6. 500, 550 | 7. 600, 700 | 8. 900, 1000 |

Answer keys

check, do not re-teach from scratch

Unit 1 • Unit 1 mixed practice

book page 23

1. 100	2. 30	3. 2	4. 900
5. <	6. <	7. >	8. >
9. 40	10. 40	11. 50	12. 4
13. 300, 350	14. 650, 700		

Unit 1 Check

book page 24

1. 700	2. 4	3. 900	4. <
5. <	6. >	7. 10	8. 300
9. 600, 650	10. 700, 750		

8 or more out of 10: move on. 7 or fewer: redo the unit, then this Check again.

Unit 2 • Rounding to the nearest ten

book page 27

1. 970	2. 720	3. 210	4. 860
5. 130	6. 810	7. 800	8. 690
9. 830	10. 340	11. 910	12. 250
13. 410	14. 540	15. 720	

Unit 2 • Rounding to the nearest hundred

book page 28

1. 800	2. 200	3. 500	4. 200
5. 400	6. 800	7. 300	8. 200
9. 600	10. 800	11. 300	12. 200
13. 200	14. 700	15. 700	

Unit 2 • Adding in your head

book page 29

1. 600	2. 620	3. 420	4. 790
5. 580	6. 470	7. 610	8. 680
9. 570	10. 920	11. 760	12. 450
13. 670	14. 530	15. 570	

Unit 2 • Subtracting in your head

book page 30

1. 300	2. 280	3. 430	4. 580
5. 610	6. 330	7. 570	8. 580
9. 580	10. 590	11. 70	12. 270
13. 580	14. 400	15. 360	

Unit 2 • Making the next hundred

book page 31

1. 25	2. 235	3. 70	4. 85
5. 400	6. 30	7. 80	8. 10
9. 150	10. 40	11. 175	12. 170

Unit 2 • Doubles and near doubles

book page 32

1. 59	2. 36	3. 65	4. 75
5. 30	6. 90	7. 69	8. 56
9. 40	10. 52	11. 48	12. 46
13. 82	14. 25	15. 43	

Answer keys

check, do not re-teach from scratch

Unit 2 • Estimating sums

book page 33

1. 900	2. 500	3. 800	4. 600
5. 900	6. 500	7. 800	8. 800
9. 500	10. 800		

Unit 2 • Estimating differences

book page 34

1. 600	2. 400	3. 300	4. 600
5. 100	6. 200	7. 200	8. 200
9. 300	10. 300		

Unit 2 • Unit 2 mixed practice

book page 35

1. 240	2. 120	3. 570	4. 840
5. 800	6. 600	7. 500	8. 100
9. 930	10. 970	11. 910	12. 500
13. 800	14. 200		

Unit 2 Check

book page 36

1. 840	2. 400	3. 290	4. 200
5. 600	6. 700	7. 690	8. 820
9. 600	10. 700		

8 or more out of 10: move on. 7 or fewer: redo the unit, then this Check again.

Unit 3 • Adding with the written method

book page 39

1. 794	2. 637	3. 729	4. 651
5. 600	6. 784	7. 493	8. 802
9. 751			

Unit 3 • More adding

book page 40

1. 917	2. 716	3. 532	4. 337
5. 584	6. 857	7. 603	8. 816
9. 312			

Unit 3 • Subtracting with the written method

book page 41

1. 225	2. 264	3. 115	4. 133
5. 495	6. 233	7. 178	8. 69
9. 771			

Unit 3 • More subtracting

book page 42

1. 58	2. 183	3. 114	4. 119
5. 613	6. 221	7. 51	8. 128
9. 293			

Unit 3 • Finding the missing number

book page 43

1. 372	2. 125	3. 353	4. 352
5. 349	6. 62	7. 315	8. 448
9. 192	10. 496	11. 496	12. 178

Unit 3 • Word problems: adding

book page 44

1. 599	2. 505	3. 810	4. 673
--------	--------	--------	--------

Answer keys

check, do not re-teach from scratch

Unit 3 • Word problems: subtracting

book page 45

1. 111	2. 63	3. 143	4. 470
--------	-------	--------	--------

Unit 3 • Two-step problems

book page 46

1. 255	2. 500	3. 197	4. 515
--------	--------	--------	--------

Unit 3 • Unit 3 mixed practice

book page 47

1. 649	2. 368	3. 534	4. 560
5. 631	6. 148	7. 661	8. 144
9. 261			

Unit 3 Check

book page 48

1. 595	2. 435	3. 332	4. 219
5. 870	6. 218	7. 281	8. 342
9. 717	10. 649		

8 or more out of 10: move on. 7 or fewer: redo the unit, then this Check again.

Unit 4 • Arrays show multiplication

book page 51

1. $5 \times 6 = 30$	2. $3 \times 9 = 27$	3. $2 \times 4 = 8$	4. $5 \times 3 = 15$
----------------------	----------------------	---------------------	----------------------

Unit 4 • The 2, 5 and 10 facts

book page 52

1. 25	2. 50	3. 14	4. 10
5. 35	6. 70	7. 15	8. 12
9. 18	10. 100	11. 30	12. 4
13. 80	14. 45	15. 45	16. 5
17. 8	18. 16		

Unit 4 • Division facts that go with them

book page 53

1. 5	2. 5	3. 10	4. 3
5. 6	6. 2	7. 5	8. 10
9. 5	10. 4	11. 5	12. 7
13. 3	14. 9	15. 6	16. 3
17. 5	18. 2		

Unit 4 • Equal groups

book page 54

1. 12	2. 36	3. 48	4. 18
5. 27	6. 35	7. 12	8. 24

Unit 4 • Sharing equally

book page 55

1. 3	2. 3	3. 5	4. 8
5. 5	6. 9	7. 2	8. 4

Unit 4 • Missing factors

book page 56

1. 10	2. 6	3. 2	4. 2
5. 4	6. 10	7. 9	8. 2
9. 7	10. 4	11. 8	12. 5
13. 4	14. 10	15. 4	

Answer keys

check, do not re-teach from scratch

Unit 4 • Fact families

book page 57

1. $6 \times 8 = 48$, $8 \times 6 = 48$, $48 \div 6 = 8$, $48 \div 8 = 6$
 3. $8 \times 7 = 56$, $7 \times 8 = 56$, $56 \div 8 = 7$, $56 \div 7 = 8$
 5. $8 \times 4 = 32$, $4 \times 8 = 32$, $32 \div 8 = 4$, $32 \div 4 = 8$
 7. $2 \times 4 = 8$, $4 \times 2 = 8$, $8 \div 2 = 4$, $8 \div 4 = 2$

2. $2 \times 6 = 12$, $6 \times 2 = 12$, $12 \div 2 = 6$, $12 \div 6 = 2$
 4. $8 \times 2 = 16$, $2 \times 8 = 16$, $16 \div 8 = 2$, $16 \div 2 = 8$
 6. $8 \times 5 = 40$, $5 \times 8 = 40$, $40 \div 8 = 5$, $40 \div 5 = 8$

Unit 4 • Checking with division

book page 58

1. $45 \div 9 = 5$ 2. $72 \div 9 = 8$ 3. $16 \div 4 = 4$ 4. $20 \div 4 = 5$
 5. $9 \div 3 = 3$ 6. $27 \div 9 = 3$ 7. $81 \div 9 = 9$

Unit 4 • Halves, thirds and fourths of a group

book page 59

1. 6 2. 7 3. 2 4. 7
 5. 4 6. 5 7. 5 8. 4
 9. 60 10. 32 11. 49 12. 21

Unit 4 Check

book page 60

1. 20 2. 10 3. 35 4. 4
 5. 9 6. 1 7. 8 8. 9
 9. 8 10. 30

8 or more out of 10: move on. 7 or fewer: redo the unit, then this Check again.

Unit 5 • Fair shares that come out even

book page 63

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

Unit 5 • Shading fractions

book page 64

1. 2 of the 5 parts shaded 2. 3 of the 5 parts shaded 3. 7 of the 10 parts shaded 4. 2 of the 6 parts shaded
 5. 4 of the 10 parts shaded

Unit 5 • Fair shares that do not come out even

book page 65

1. $\frac{1}{8}$ 2. $\frac{1}{2}$ 3. $\frac{4}{5}$ 4. $\frac{2}{3}$
 5. $\frac{9}{10}$ 6. $\frac{1}{2}$ 7. $\frac{1}{2}$ 8. $\frac{1}{6}$

Unit 5 • Sharing with some left over

book page 66

1. 3 and $\frac{3}{5}$ 2. 3 and $\frac{1}{2}$ 3. 2 and $\frac{2}{3}$ 4. 3 and $\frac{1}{2}$
 5. 1 and $\frac{1}{4}$ 6. 1 and $\frac{2}{3}$ 7. 2 and $\frac{1}{3}$

Unit 5 • Adding unit fractions

book page 67

1. $\frac{3}{6}$ 2. $\frac{2}{6}$ 3. $\frac{7}{8}$ 4. $\frac{4}{6}$
 5. $\frac{2}{10}$ 6. $\frac{4}{8}$ 7. $\frac{3}{4}$ 8. $\frac{2}{3}$
 9. 2 10. 2 11. 2 12. 3

Unit 5 • Equivalent fractions

book page 68

1. 1 2. 2 3. 4 4. 1
 5. 4 6. 1 7. 4 8. 1
 9. 2 10. 1 11. 3 12. 2
 13. 2 14. 6 15. 8

Answer keys

check, do not re-teach from scratch

Unit 5 • Which fraction is larger?

book page 69

- | | | | |
|-------------------|-------------------|-------------------|-------------------|
| 1. $\frac{1}{2}$ | 2. $\frac{1}{4}$ | 3. $\frac{1}{5}$ | 4. $\frac{1}{4}$ |
| 5. $\frac{1}{2}$ | 6. $\frac{1}{4}$ | 7. $\frac{2}{4}$ | 8. $\frac{3}{5}$ |
| 9. $\frac{5}{10}$ | 10. $\frac{5}{8}$ | 11. $\frac{7}{8}$ | 12. $\frac{4}{6}$ |

Unit 5 • Scaling up: 1 to 2, 1 to 5, 1 to 10

book page 70

- | | | | |
|-------|-------|-------|-------|
| 1. 4 | 2. 12 | 3. 30 | 4. 55 |
| 5. 30 | 6. 20 | 7. 16 | 8. 50 |

Unit 5 • Unit 5 mixed practice

book page 71

- | | | | |
|------------------|-------------------|-------------------|--------------------|
| 1. 2 | 2. 2 | 3. 3 | 4. 4 |
| 5. 6 | 6. $\frac{3}{5}$ | 7. $\frac{1}{4}$ | 8. $\frac{1}{5}$ |
| 9. $\frac{3}{5}$ | 10. $\frac{2}{4}$ | 11. $\frac{5}{6}$ | 12. $\frac{9}{10}$ |

Unit 5 Check

book page 72

- | | | | |
|-------------------|--------------------|------------------|------------------|
| 1. 1 | 2. 5 | 3. $\frac{5}{8}$ | 4. $\frac{1}{4}$ |
| 5. 4 | 6. 2 | 7. 4 | 8. $\frac{4}{5}$ |
| 9. $\frac{3}{10}$ | 10. $\frac{7}{10}$ | | |

8 or more out of 10: move on. 7 or fewer: redo the unit, then this Check again.

Unit 6 • Patterns that grow

book page 75

- | | | | |
|-------------|-----------|-------------|-----------|
| 1. 125, 150 | 2. 52, 55 | 3. 141, 166 | 4. 47, 52 |
| 5. 42, 52 | 6. 15, 17 | 7. 64, 69 | 8. 65, 67 |

Unit 6 • Patterns that shrink

book page 76

- | | | | |
|-------------|-------------|-------------|-----------|
| 1. 30, 28 | 2. 55, 50 | 3. 200, 150 | 4. 20, 15 |
| 5. 250, 200 | 6. 350, 300 | 7. 125, 100 | 8. 70, 60 |

Unit 6 • Repeating shape patterns

book page 77

- | | | | |
|------------|--------------|------------|--------------|
| 1. hexagon | 2. trapezoid | 3. hexagon | 4. trapezoid |
|------------|--------------|------------|--------------|

Unit 6 • Saying the pattern rule

book page 78

- | | | | |
|--------------------------|---------------------------|---------------------------|--------------------------|
| 1. start at 32 and add 2 | 2. start at 20 and add 10 | 3. start at 22 and add 10 | 4. start at 36 and add 3 |
| 5. start at 15 and add 5 | 6. start at 24 and add 3 | 7. start at 6 and add 6 | 8. start at 22 and add 6 |

Unit 6 • Missing numbers in a pattern

book page 79

- | | | | |
|-------|-------|-------|-------|
| 1. 20 | 2. 12 | 3. 28 | 4. 48 |
| 5. 42 | 6. 51 | 7. 40 | 8. 19 |

Unit 6 • Looking far ahead

book page 80

- | | | | |
|--------|-------|-------|-------|
| 1. 129 | 2. 51 | 3. 45 | 4. 34 |
| 5. 39 | 6. 59 | 7. 30 | 8. 36 |

Unit 6 • Are these the same?

book page 81

- | | | | |
|--------|---------|--------|--------|
| 1. no | 2. no | 3. no | 4. yes |
| 5. yes | 6. no | 7. yes | 8. no |
| 9. yes | 10. yes | | |

Unit 6 • Letters that stand for numbers

book page 82

- | | | | |
|--------|--------|--------|--------|
| 1. 443 | 2. 478 | 3. 120 | 4. 276 |
| 5. 185 | 6. 296 | 7. 286 | 8. 452 |

Answer keys

check, do not re-teach from scratch

Unit 6 • Keeping the balance

book page 83

1. 2	2. 21	3. 13	4. 41
5. 49	6. 17	7. 40	8. 38
9. 15	10. 45	11. 17	12. 40

Unit 6 Check

book page 84

1. 63, 65	2. 113, 138	3. 82, 88	4. 34
5. 40	6. 53	7. 124	8. 320
9. 16	10. 11		

8 or more out of 10: move on. 7 or fewer: redo the unit, then this Check again.

Unit 7 • Reading a bar graph

book page 87

1. 50	2. 16
-------	-------

Unit 7 • Adding up a bar graph

book page 88

1. 62	2. 200
-------	--------

Unit 7 • Reading a pictograph

book page 89

1. 4	2. 12
------	-------

Unit 7 • Frequency tables

book page 90

1. 31	2. 37
-------	-------

Unit 7 • Sorting two ways

book page 91

1. 3	2. 4
------	------

Unit 7 • Finding the mean

book page 92

1. 7	2. 17	3. 10	4. 10
5. 9	6. 8	7. 12	8. 5

Unit 7 • Finding the mode

book page 93

1. 4	2. 18	3. 14	4. 18
5. 18	6. 4	7. 11	8. 15

Unit 7 • How likely is it?

book page 94

1. equally likely	2. certain	3. unlikely	4. equally likely
5. impossible	6. likely	7. certain	8. impossible

Unit 7 • Unit 7 mixed practice

book page 95

1. 16	2. 20	3. 18	4. 4
5. 7	6. 19	7. 5	8. 12
9. impossible	10. unlikely	11. impossible	12. equally likely

Unit 7 Check

book page 96

1. 8	2. 14	3. 14	4. 17
5. 8	6. 10	7. certain	8. unlikely
9. unlikely	10. likely		

8 or more out of 10: move on. 7 or fewer: redo the unit, then this Check again.

Answer keys

check, do not re-teach from scratch

Unit 8 • Faces, edges and vertices

book page 99

1. 4	2. 10	3. 10	4. 5
5. 6	6. 7	7. 8	8. 8
9. 18	10. 6		

Unit 8 • Naming the solid

book page 100

1. a cube or a rectangular prism (both have 6 faces, 12 edges and 8 vertices)
2. a pentagonal prism
3. a square-based pyramid
4. a triangular prism
5. a triangle-based pyramid
6. a pentagon-based pyramid
7. a hexagonal prism

Unit 8 • Counting sides, edges and faces

book page 101

1. 3	2. 4	3. 8	4. 5
5. 6	6. 4	7. 12	8. 12
9. 6	10. 6	11. 9	12. 6

Unit 8 • Drawing and matching shapes

book page 102

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

Unit 8 • Are they congruent?

book page 103

1. yes	2. yes	3. no	4. no
5. yes	6. no	7. no	8. yes

Unit 8 • Building with cubes

book page 104

1. 8	2. 6	3. 8	4. 7
5. 7	6. 10	7. 6	8. 7
9. 4	10. 5		

Unit 8 • Quarter turns and half turns

book page 105

1. north	2. north	3. west	4. east
5. east	6. south	7. south	8. north

Unit 8 • Following a route

book page 106

1. 3	2. 2	3. 0	4. 4
5. 0	6. 0		

Unit 8 • Unit 8 mixed practice

book page 107

1. 7	2. 12	3. 5	4. 15
5. 6	6. 8	7. 3	8. 4
9. 5	10. 6	11. west	12. north
13. west	14. south		

Answer keys

check, do not re-teach from scratch

Unit 8 Check

book page 108

- | | | | |
|--------|---------|---------|---------|
| 1. 7 | 2. 8 | 3. 5 | 4. 8 |
| 5. 6 | 6. 5 | 7. west | 8. west |
| 9. yes | 10. yes | | |

8 or more out of 10: move on. 7 or fewer: redo the unit, then this Check again.

Unit 9 • Perimeter of a rectangle

book page 111

- | | | | |
|----------|----------|----------|----------|
| 1. 22 cm | 2. 38 cm | 3. 24 cm | 4. 30 cm |
| 5. 30 cm | 6. 26 cm | 7. 26 cm | 8. 38 cm |

Unit 9 • Perimeter of other shapes

book page 112

- | | | | |
|----------|----------|----------|----------|
| 1. 27 cm | 2. 17 cm | 3. 46 cm | 4. 46 cm |
| 5. 28 cm | 6. 37 cm | 7. 31 cm | 8. 19 cm |

Unit 9 • Millimetres, centimetres, metres, kilometres

book page 113

- | | | | |
|-------|---------|----------|---------|
| 1. 4 | 2. 40 | 3. 80 | 4. 2000 |
| 5. 7 | 6. 60 | 7. 30 | 8. 6 |
| 9. 70 | 10. 700 | 11. 8000 | 12. 4 |
| 13. 7 | 14. 9 | 15. 90 | |

Unit 9 • Choosing the right unit

book page 114

- | | | | |
|-------|-------|-------|-------|
| 1. km | 2. mm | 3. m | 4. mm |
| 5. m | 6. cm | 7. cm | 8. km |

Unit 9 • Big units and small units

book page 115

- | | | | |
|-------|-------|-------|------|
| 1. 12 | 2. 14 | 3. 36 | 4. 8 |
| 5. 9 | 6. 20 | 7. 20 | |

Unit 9 • Telling the time

book page 116

- | | | | |
|---------|----------|---------|---------|
| 1. 1:15 | 2. 2:00 | 3. 1:05 | 4. 5:15 |
| 5. 7:25 | 6. 10:40 | | |

Unit 9 • How long did it take?

book page 117

- | | | | |
|---------------|---------------|---------------|---------------|
| 1. 45 minutes | 2. 85 minutes | 3. 25 minutes | 4. 5 minutes |
| 5. 10 minutes | 6. 90 minutes | 7. 80 minutes | 8. 40 minutes |

Unit 9 • Hours, minutes and seconds

book page 118

- | | | | |
|--------|---------|--------|--------|
| 1. 420 | 2. 540 | 3. 540 | 4. 120 |
| 5. 3 | 6. 420 | 7. 360 | 8. 5 |
| 9. 360 | 10. 180 | 11. 6 | 12. 7 |

Unit 9 • Capacity and mass at home

book page 119

- | | | | |
|---------|-----------|----------|----------|
| 1. 22 | 2. 30 | 3. 44 | 4. 40 |
| 5. 21 | 6. right | 7. right | 8. right |
| 9. left | 10. right | | |

Unit 9 Check

book page 120

- | | | | |
|----------------|-----------------|----------|---------|
| 1. 30 cm | 2. 10 cm | 3. 16 cm | 4. 5000 |
| 5. 8 | 6. 50 | 7. 180 | 8. 240 |
| 9. 105 minutes | 10. 110 minutes | | |

8 or more out of 10: move on. 7 or fewer: redo the unit, then this Check again.

Answer keys

check, do not re-teach from scratch

Unit 10 • Counting square units

book page 123

- | | | | |
|--------------------|--------------------|--------------------|--------------------|
| 1. 28 square units | 2. 37 square units | 3. 29 square units | 4. 21 square units |
|--------------------|--------------------|--------------------|--------------------|

Unit 10 • Area of a rectangle

book page 124

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. 44 cm ² | 2. 33 cm ² | 3. 60 cm ² | 4. 56 cm ² |
| 5. 35 cm ² | 6. 84 cm ² | 7. 16 cm ² | 8. 20 cm ² |

Unit 10 • Finding a missing side

book page 125

- | | | | |
|----------|----------|---------|---------|
| 1. 12 cm | 2. 12 cm | 3. 9 cm | 4. 8 cm |
| 5. 5 cm | 6. 11 cm | 7. 3 cm | 8. 2 cm |

Unit 10 • Different shapes, same area

book page 126

- any two of: 1 cm by 30 cm; 2 cm by 15 cm; 3 cm by 10 cm; 5 cm by 6 cm
- any two of: 1 cm by 32 cm; 2 cm by 16 cm; 4 cm by 8 cm
- any two of: 1 cm by 40 cm; 2 cm by 20 cm; 4 cm by 10 cm; 5 cm by 8 cm
- any two of: 1 cm by 28 cm; 2 cm by 14 cm; 4 cm by 7 cm
- any two of: 1 cm by 20 cm; 2 cm by 10 cm; 4 cm by 5 cm
- any two of: 1 cm by 12 cm; 2 cm by 6 cm; 3 cm by 4 cm

More than one answer is correct here; any that fits the description counts.

Unit 10 • cm² or m²?

book page 127

- | | | | |
|--------------------|--------------------|--------------------|-------------------|
| 1. cm ² | 2. cm ² | 3. cm ² | 4. m ² |
| 5. m ² | 6. cm ² | 7. m ² | 8. m ² |

Unit 10 • Change from a dollar

book page 128

- | | | | |
|-----------|------------|-----------|-----------|
| 1. \$0.25 | 2. \$0.05 | 3. \$0.60 | 4. \$0.50 |
| 5. \$0.80 | 6. \$0.30 | 7. \$0.75 | 8. \$0.85 |
| 9. \$0.30 | 10. \$0.70 | | |

Unit 10 • Change from bigger amounts

book page 129

- | | | | |
|-----------|-----------|-----------|-----------|
| 1. \$2.30 | 2. \$0.15 | 3. \$1.10 | 4. \$1.15 |
| 5. \$0.05 | 6. \$1.40 | 7. \$2.55 | 8. \$2.65 |

Unit 10 • Estimating the change

book page 130

- | | | | |
|-----------|-----------|-----------|-----------|
| 1. \$1.00 | 2. \$2.00 | 3. \$1.00 | 4. \$1.00 |
| 5. \$2.00 | 6. \$2.00 | 7. \$1.00 | |

Unit 10 • Unit 10 mixed practice

book page 131

- | | | | |
|-----------------------|-----------------------|-----------------------|----------------------|
| 1. 14 cm ² | 2. 27 cm ² | 3. 45 cm ² | 4. 6 cm ² |
| 5. \$0.20 | 6. \$0.85 | 7. \$0.15 | 8. \$0.85 |
| 9. \$2.25 | 10. \$2.70 | 11. \$3.10 | 12. \$2.30 |

Unit 10 Check

book page 132

- | | | | |
|-----------------------|------------------------|-----------------------|-----------|
| 1. 54 cm ² | 2. 120 cm ² | 3. 50 cm ² | 4. 3 cm |
| 5. 10 cm | 6. \$0.30 | 7. \$0.05 | 8. \$0.35 |
| 9. \$3.85 | 10. \$3.35 | | |

8 or more out of 10: move on. 7 or fewer: redo the unit, then this Check again.

Answer keys

check, do not re-teach from scratch

Timed fact page F1 • Addition to 20

book page 134

1. 14	2. 18	3. 14	4. 12
5. 15	6. 17	7. 15	8. 12
9. 13	10. 12	11. 15	12. 15
13. 11	14. 16	15. 12	16. 14
17. 11	18. 11	19. 11	20. 17
21. 15	22. 17	23. 20	24. 11
25. 16	26. 12	27. 15	28. 13
29. 19	30. 12	31. 13	32. 12
33. 14	34. 14	35. 16	36. 16
37. 13	38. 11	39. 11	40. 12

Timed fact page F2 • Subtraction within 20

book page 135

1. 11	2. 5	3. 18	4. 0
5. 13	6. 8	7. 11	8. 6
9. 3	10. 20	11. 8	12. 15
13. 3	14. 5	15. 9	16. 6
17. 13	18. 9	19. 6	20. 1
21. 2	22. 12	23. 6	24. 12
25. 5	26. 4	27. 1	28. 13
29. 4	30. 14	31. 17	32. 8
33. 4	34. 17	35. 5	36. 7
37. 12	38. 3	39. 1	40. 11

Timed fact page F3 • Multiplication: 2, 5 and 10

book page 136

1. 40	2. 90	3. 100	4. 6
5. 8	6. 16	7. 8	8. 35
9. 50	10. 30	11. 10	12. 15
13. 14	14. 20	15. 15	16. 20
17. 30	18. 18	19. 60	20. 16
21. 10	22. 90	23. 70	24. 2
25. 40	26. 35	27. 5	28. 4
29. 70	30. 80	31. 14	32. 20
33. 80	34. 60	35. 45	36. 40
37. 10	38. 30	39. 2	40. 25

Timed fact page F4 • Division: 2, 5 and 10

book page 137

1. 5	2. 3	3. 1	4. 6
5. 4	6. 2	7. 5	8. 10
9. 5	10. 9	11. 4	12. 5
13. 10	14. 9	15. 10	16. 8
17. 3	18. 8	19. 7	20. 4
21. 8	22. 6	23. 5	24. 5
25. 2	26. 5	27. 2	28. 9
29. 1	30. 5	31. 2	32. 2
33. 10	34. 10	35. 5	36. 7
37. 10	38. 6	39. 2	40. 5

Answer keys

check, do not re-teach from scratch

Timed fact page F5 · Mixed + and – within 20

book page 138

1. 11	2. 11	3. 14	4. 12
5. 13	6. 9	7. 13	8. 4
9. 10	10. 3	11. 1	12. 5
13. 14	14. 11	15. 12	16. 10
17. 18	18. 2	19. 12	20. 12
21. 3	22. 7	23. 11	24. 9
25. 15	26. 6	27. 7	28. 10
29. 0	30. 11	31. 14	32. 9
33. 15	34. 13	35. 14	36. 13
37. 4	38. 11	39. 8	40. 17

Timed fact page F6 · Multiplication 2 to 10

book page 139

1. 30	2. 80	3. 45	4. 90
5. 50	6. 30	7. 42	8. 16
9. 81	10. 12	11. 4	12. 25
13. 72	14. 16	15. 40	16. 32
17. 6	18. 40	19. 14	20. 36
21. 60	22. 45	23. 70	24. 8
25. 16	26. 30	27. 12	28. 18
29. 50	30. 35	31. 6	32. 9
33. 8	34. 63	35. 56	36. 60
37. 36	38. 27	39. 35	40. 18

End-of-Year Check

book page 142

1. 10	2. >	3. 710	4. 900
5. 662	6. 272	7. 35	8. 1
9. 6	10. 2/3	11. 22, 27	12. 15
13. 5	14. 14	15. 5	16. 8
17. 24 cm	18. 600	19. 44 cm ²	20. 7 cm
21. 35	22. 60	23. 5	24. 5