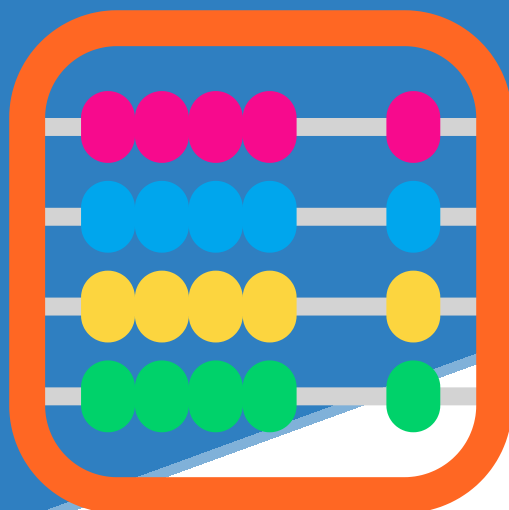


GRADE 5 • WORKBOOK

Grade 5 Math: Expressions, Factors & Powers

Order of operations, GCF, LCM, exponents and ratios.



FREE
NO SIGN-UP



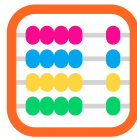
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35 pages • syllabus • answer key included



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Grade 5 Math: Expressions, Factors & Powers



The building blocks of middle-school maths: order of operations, factors and multiples, powers of ten, ratios and simple equations.

How to use this workbook

Work through the chapters in order, or jump to the skill your child needs most.
Each skill has three different sheets (A, B and C) so you can practise, review and test.
Do one or two sheets a day. Short, regular practice works better than long sessions.
Check answers using the answer key at the back of the book, then talk about any mistakes.
Print the pages you need on A4 or Letter paper; scale to fit if your printer asks.

What your child will learn

Prime Factorization	Squares and Square Roots
Greatest Common Factor (GCF)	Writing Ratios
Least Common Multiple (LCM)	Equivalent Ratios
Divisibility Rules	Function Tables (In and Out)
Powers and Exponents	One-Step Equations: Addition and Subtraction
Powers of Ten	

This workbook is free to print for home and classroom use. It may not be sold or republished. More free books and worksheets: printableworksheetsforkids.pages.dev

Syllabus: what is inside

Welcome and how to use this book**p. 1**

How the workbook works and what your child will learn

1 Factors and multiples**p. 3–14**

Prime Factorization · Greatest Common Factor (GCF) · Least Common Multiple (LCM) · Divisibility Rules

2 Powers**p. 15–23**

Powers and Exponents · Powers of Ten · Squares and Square Roots

3 Ratios and algebra**p. 24–35**

Writing Ratios · Equivalent Ratios · Function Tables (In and Out) · One-Step Equations: Addition and Subtraction

Answer key**p. 36**

Answers for every sheet in the book

 Prime Factorization

Name: _____

Date: _____

Score: _____

Write each number as a product of prime factors. (Tip: draw a factor tree.)

1 **94** =

2 **56** =

3 **93** =

4 **10** =

5 **28** =

6 **8** =

7 **26** =

8 **35** =

9 **80** =

10 **32** =

 Prime Factorization

Name: _____

Date: _____

Score: _____

Write each number as a product of prime factors. (Tip: draw a factor tree.)

1 **87** =

2 **21** =

3 **91** =

4 **20** =

5 **75** =

6 **82** =

7 **56** =

8 **78** =

9 **92** =

10 **54** =

 Prime Factorization

Name: _____

Date: _____

Score: _____

Write each number as a product of prime factors. (Tip: draw a factor tree.)

1 **100** =

2 **50** =

3 **80** =

4 **14** =

5 **45** =

6 **15** =

7 **42** =

8 **30** =

9 **90** =

10 **78** =

 Greatest Common Factor (GCF)

Name: _____

Date: _____

Score: _____

Find the greatest common factor (the biggest number that divides both).

1 GCF of **30** and **20** =

2 GCF of **40** and **64** =

3 GCF of **72** and **81** =

4 GCF of **42** and **48** =

5 GCF of **40** and **10** =

6 GCF of **20** and **24** =

7 GCF of **45** and **30** =

8 GCF of **16** and **32** =

9 GCF of **70** and **80** =

10 GCF of **18** and **36** =

11 GCF of **30** and **18** =

12 GCF of **8** and **12** =

 Greatest Common Factor (GCF)

Name: _____

Date: _____

Score: _____

Find the greatest common factor (the biggest number that divides both).

1 GCF of **72** and **16** =

2 GCF of **45** and **20** =

3 GCF of **54** and **36** =

4 GCF of **40** and **72** =

5 GCF of **21** and **42** =

6 GCF of **16** and **4** =

7 GCF of **81** and **54** =

8 GCF of **16** and **12** =

9 GCF of **45** and **72** =

10 GCF of **56** and **40** =

11 GCF of **44** and **77** =

12 GCF of **28** and **56** =

 Greatest Common Factor (GCF)

Name: _____

Date: _____

Score: _____

Find the greatest common factor (the biggest number that divides both).

1 GCF of **16** and **18** =

2 GCF of **54** and **36** =

3 GCF of **12** and **8** =

4 GCF of **63** and **54** =

5 GCF of **27** and **54** =

6 GCF of **30** and **40** =

7 GCF of **77** and **33** =

8 GCF of **96** and **36** =

9 GCF of **48** and **40** =

10 GCF of **18** and **27** =

11 GCF of **24** and **21** =

12 GCF of **12** and **14** =

 Least Common Multiple (LCM)

Name: _____

Date: _____

Score: _____

Find the least common multiple (the smallest number that both numbers divide into).

1 LCM of **7** and **3** =

2 LCM of **7** and **4** =

3 LCM of **11** and **3** =

4 LCM of **9** and **6** =

5 LCM of **8** and **4** =

6 LCM of **5** and **8** =

7 LCM of **9** and **11** =

8 LCM of **8** and **5** =

9 LCM of **11** and **3** =

10 LCM of **7** and **12** =

11 LCM of **8** and **3** =

12 LCM of **6** and **2** =

 Least Common Multiple (LCM)

Name: _____

Date: _____

Score: _____

Find the least common multiple (the smallest number that both numbers divide into).

1 LCM of **6** and **8** =

2 LCM of **4** and **7** =

3 LCM of **2** and **12** =

4 LCM of **7** and **3** =

5 LCM of **8** and **6** =

6 LCM of **5** and **11** =

7 LCM of **12** and **11** =

8 LCM of **3** and **5** =

9 LCM of **5** and **12** =

10 LCM of **10** and **4** =

11 LCM of **11** and **7** =

12 LCM of **6** and **10** =

 Least Common Multiple (LCM)

Name: _____

Date: _____

Score: _____

Find the least common multiple (the smallest number that both numbers divide into).

1 LCM of **9** and **8** =

2 LCM of **5** and **9** =

3 LCM of **6** and **11** =

4 LCM of **5** and **9** =

5 LCM of **11** and **10** =

6 LCM of **8** and **3** =

7 LCM of **5** and **7** =

8 LCM of **11** and **7** =

9 LCM of **9** and **2** =

10 LCM of **5** and **11** =

11 LCM of **3** and **8** =

12 LCM of **12** and **9** =

 Divisibility Rules

Name: _____

Date: _____

Score: _____

Use the divisibility rules (no long division needed) and tick yes or no.

1
Is **631** divisible by **5** ? ☐ yes
☐ no

2
Is **864** divisible by **10** ? ☐ yes
☐ no

3
Is **115** divisible by **5** ? ☐ yes
☐ no

4
Is **999** divisible by **3** ? ☐ yes
☐ no

5
Is **621** divisible by **9** ? ☐ yes
☐ no

6
Is **410** divisible by **10** ? ☐ yes
☐ no

7
Is **744** divisible by **5** ? ☐ yes
☐ no

8
Is **369** divisible by **5** ? ☐ yes
☐ no

9
Is **816** divisible by **3** ? ☐ yes
☐ no

10
Is **291** divisible by **3** ? ☐ yes
☐ no

11
Is **720** divisible by **10** ? ☐ yes
☐ no

12
Is **123** divisible by **3** ? ☐ yes
☐ no

13
Is **316** divisible by **9** ? ☐ yes
☐ no

14
Is **436** divisible by **2** ? ☐ yes
☐ no

15
Is **634** divisible by **9** ? ☐ yes
☐ no

16
Is **288** divisible by **10** ? ☐ yes
☐ no

 Divisibility Rules

Name: _____

Date: _____

Score: _____

Use the divisibility rules (no long division needed) and tick yes or no.

1
Is **445** divisible by **5** ? ☐ yes
☐ no

2
Is **590** divisible by **5** ? ☐ yes
☐ no

3
Is **390** divisible by **5** ? ☐ yes
☐ no

4
Is **729** divisible by **9** ? ☐ yes
☐ no

5
Is **220** divisible by **2** ? ☐ yes
☐ no

6
Is **405** divisible by **9** ? ☐ yes
☐ no

7
Is **290** divisible by **2** ? ☐ yes
☐ no

8
Is **127** divisible by **2** ? ☐ yes
☐ no

9
Is **834** divisible by **3** ? ☐ yes
☐ no

10
Is **895** divisible by **5** ? ☐ yes
☐ no

11
Is **379** divisible by **5** ? ☐ yes
☐ no

12
Is **859** divisible by **10** ? ☐ yes
☐ no

13
Is **662** divisible by **2** ? ☐ yes
☐ no

14
Is **252** divisible by **9** ? ☐ yes
☐ no

15
Is **790** divisible by **2** ? ☐ yes
☐ no

16
Is **815** divisible by **5** ? ☐ yes
☐ no

 Divisibility Rules

Name: _____

Date: _____

Score: _____

Use the divisibility rules (no long division needed) and tick yes or no.

1
Is **390** divisible by **10** ? ☐ yes
☐ no

2
Is **558** divisible by **2** ? ☐ yes
☐ no

3
Is **609** divisible by **3** ? ☐ yes
☐ no

4
Is **297** divisible by **2** ? ☐ yes
☐ no

5
Is **334** divisible by **10** ? ☐ yes
☐ no

6
Is **758** divisible by **2** ? ☐ yes
☐ no

7
Is **447** divisible by **3** ? ☐ yes
☐ no

8
Is **324** divisible by **9** ? ☐ yes
☐ no

9
Is **711** divisible by **5** ? ☐ yes
☐ no

10
Is **530** divisible by **2** ? ☐ yes
☐ no

11
Is **863** divisible by **5** ? ☐ yes
☐ no

12
Is **122** divisible by **10** ? ☐ yes
☐ no

13
Is **242** divisible by **2** ? ☐ yes
☐ no

14
Is **605** divisible by **5** ? ☐ yes
☐ no

15
Is **200** divisible by **10** ? ☐ yes
☐ no

16
Is **681** divisible by **2** ? ☐ yes
☐ no



Powers and Exponents

Name: _____

Date: _____

Score: _____

Evaluate each power. (The small raised number tells you how many times to multiply the base by itself.)

1 $4^2 =$

2 $3^2 =$

3 $4^4 =$

4 $7^3 =$

5 $6^4 =$

6 $7^2 =$

7 $8^4 =$

8 $3^4 =$

9 $6^3 =$

10 $8^2 =$

11 $6^2 =$

12 $5^4 =$

13 $2^2 =$

14 $9^4 =$

15 $5^2 =$

16 $8^3 =$

17 $5^3 =$

18 $9^2 =$



Powers and Exponents

Name: _____

Date: _____

Score: _____

Evaluate each power. (The small raised number tells you how many times to multiply the base by itself.)

1 $5^4 =$

2 $6^2 =$

3 $9^2 =$

4 $4^3 =$

5 $7^3 =$

6 $3^3 =$

7 $8^2 =$

8 $4^4 =$

9 $3^4 =$

10 $7^2 =$

11 $5^2 =$

12 $8^4 =$

13 $7^4 =$

14 $5^3 =$

15 $6^3 =$

16 $9^4 =$

17 $4^2 =$

18 $8^3 =$



Powers and Exponents

Name: _____

Date: _____

Score: _____

Evaluate each power. (The small raised number tells you how many times to multiply the base by itself.)

1 $8^4 =$

2 $4^2 =$

3 $6^2 =$

4 $5^3 =$

5 $7^2 =$

6 $9^4 =$

7 $9^2 =$

8 $2^3 =$

9 $6^3 =$

10 $4^4 =$

11 $4^3 =$

12 $2^4 =$

13 $8^2 =$

14 $3^3 =$

15 $2^2 =$

16 $9^3 =$

17 $5^2 =$

18 $7^4 =$

★ Powers of Ten

Name: _____ Date: _____ Score: _____

Powers of ten: the exponent tells you how many zeros follow the 1.

1 $10^2 =$

2 $6 \times 10^5 =$

3 $10^6 =$

4 $6 \times 10^2 =$

5 $10^3 =$

6 $4 \times 10^5 =$

7 $10^1 =$

8 $5 \times 10^2 =$

9 $10^3 =$

10 $7 \times 10^2 =$

11 $10^4 =$

12 $2 \times 10^5 =$

13 $10^2 =$

14 $4 \times 10^3 =$

15 $10^1 =$

16 $5 \times 10^3 =$

★ Powers of Ten

Name: _____ Date: _____ Score: _____

Powers of ten: the exponent tells you how many zeros follow the 1.

1 $10^2 =$

2 $5 \times 10^6 =$

3 $10^1 =$

4 $7 \times 10^3 =$

5 $10^3 =$

6 $9 \times 10^1 =$

7 $10^6 =$

8 $6 \times 10^3 =$

9 $10^3 =$

10 $6 \times 10^3 =$

11 $10^5 =$

12 $9 \times 10^1 =$

13 $10^3 =$

14 $8 \times 10^3 =$

15 $10^4 =$

16 $5 \times 10^5 =$

★ Powers of Ten

Name: _____

Date: _____

Score: _____

Powers of ten: the exponent tells you how many zeros follow the 1.

1 $10^2 =$

2 $9 \times 10^1 =$

3 $10^4 =$

4 $6 \times 10^6 =$

5 $10^1 =$

6 $2 \times 10^2 =$

7 $10^3 =$

8 $2 \times 10^2 =$

9 $10^4 =$

10 $6 \times 10^2 =$

11 $10^2 =$

12 $3 \times 10^3 =$

13 $10^1 =$

14 $5 \times 10^5 =$

15 $10^6 =$

16 $3 \times 10^2 =$

★ Squares and Square Roots

Name: _____

Date: _____

Score: _____

Squares and square roots are opposites. Find each value.

1 $12^2 = \square$

2 $\sqrt{100} = \square$

3 $\sqrt{16} = \square$

4 $\sqrt{36} = \square$

5 $\sqrt{169} = \square$

6 $9^2 = \square$

7 $3^2 = \square$

8 $\sqrt{64} = \square$

9 $\sqrt{4} = \square$

10 $\sqrt{225} = \square$

11 $\sqrt{49} = \square$

12 $\sqrt{121} = \square$

13 $\sqrt{196} = \square$

14 $5^2 = \square$

★ Squares and Square Roots

Name: _____

Date: _____

Score: _____

Squares and square roots are opposites. Find each value.

1 $\sqrt{16} = \square$

2 $\sqrt{169} = \square$

3 $11^2 = \square$

4 $\sqrt{81} = \square$

5 $\sqrt{64} = \square$

6 $\sqrt{196} = \square$

7 $5^2 = \square$

8 $3^2 = \square$

9 $\sqrt{100} = \square$

10 $\sqrt{49} = \square$

11 $\sqrt{4} = \square$

12 $\sqrt{225} = \square$

13 $\sqrt{144} = \square$

14 $\sqrt{36} = \square$

★ Squares and Square Roots

Name: _____

Date: _____

Score: _____

Squares and square roots are opposites. Find each value.

1 $\sqrt{225} = \square$

2 $\sqrt{81} = \square$

3 $7^2 = \square$

4 $\sqrt{36} = \square$

5 $\sqrt{9} = \square$

6 $\sqrt{196} = \square$

7 $4^2 = \square$

8 $\sqrt{100} = \square$

9 $\sqrt{144} = \square$

10 $13^2 = \square$

11 $\sqrt{121} = \square$

12 $\sqrt{4} = \square$

13 $\sqrt{64} = \square$

14 $5^2 = \square$



Writing Ratios

Name: _____

Date: _____

Score: _____

Write the ratio of red dots to blue dots.

1 

red : blue = :

2 

red : blue = :

3 

red : blue = :

4 

red : blue = :

5 

red : blue = :

6 

red : blue = :

7 

red : blue = :

8 

red : blue = :



Writing Ratios

Name: _____

Date: _____

Score: _____

Write the ratio of red dots to blue dots.

1 

red : blue = :

2 

red : blue = :

3 

red : blue = :

4 

red : blue = :

5 

red : blue = :

6 

red : blue = :

7 

red : blue = :

8 

red : blue = :



Writing Ratios

Name: _____

Date: _____

Score: _____

Write the ratio of red dots to blue dots.

red : blue = : red : blue = : red : blue = : red : blue = : red : blue = : red : blue = : red : blue = : red : blue = :



Equivalent Ratios

Name: _____

Date: _____

Score: _____

Equivalent ratios are found by multiplying (or dividing) both parts by the same number.

1 $7 : 6 = \square : 42$

2 $1 : 9 = 5 : \square$

3 $8 : 4 = \square : 8$

4 $9 : 7 = 45 : \square$

5 $6 : 2 = \square : 4$

6 $1 : 5 = 4 : \square$

7 $7 : 3 = 56 : \square$

8 $9 : 3 = \square : 6$

9 $5 : 10 = 35 : \square$

10 $2 : 10 = \square : 70$

11 $3 : 5 = \square : 30$

12 $6 : 9 = \square : 45$



Equivalent Ratios

Name: _____

Date: _____

Score: _____

Equivalent ratios are found by multiplying (or dividing) both parts by the same number.

1 $4 : 8 = 28 : \square$

2 $7 : 2 = 21 : \square$

3 $6 : 10 = \square : 50$

4 $7 : 9 = 49 : \square$

5 $1 : 7 = \square : 49$

6 $9 : 3 = 63 : \square$

7 $6 : 10 = \square : 30$

8 $2 : 9 = \square : 27$

9 $7 : 8 = \square : 40$

10 $4 : 10 = 12 : \square$

11 $3 : 8 = \square : 16$

12 $8 : 5 = 64 : \square$



Equivalent Ratios

Name: _____

Date: _____

Score: _____

Equivalent ratios are found by multiplying (or dividing) both parts by the same number.

1 $4 : 7 = 20 : \square$

2 $9 : 6 = 36 : \square$

3 $7 : 6 = \square : 30$

4 $1 : 10 = 3 : \square$

5 $1 : 5 = \square : 25$

6 $2 : 8 = 16 : \square$

7 $6 : 2 = \square : 16$

8 $6 : 4 = \square : 24$

9 $5 : 4 = 20 : \square$

10 $2 : 9 = 12 : \square$

11 $6 : 10 = \square : 60$

12 $1 : 6 = \square : 24$



Function Tables (In and Out)

Name: _____

Date: _____

Score: _____

Apply the rule to each input number and write the output.

1 Rule: $x - 9$

in	12	17	13	15	14
out					

2 Rule: $x \times 6$

in	8	1	2	4	10
out					

3 Rule: $x + 7$

in	8	1	3	4	6
out					

4 Rule: $x \times 7$

in	3	6	10	7	9
out					

5 Rule: $x - 6$

in	10	7	9	12	11
out					

6 Rule: $x + 8$

in	6	8	7	3	4
out					



Function Tables (In and Out)

Name: _____

Date: _____

Score: _____

Apply the rule to each input number and write the output.

1 Rule: $x - 4$

in	11	8	12	13	7
out					

2 Rule: $x \times 8 + 5$

in	6	4	9	2	10
out					

3 Rule: $x - 4$

in	13	7	14	10	12
out					

4 Rule: $x - 7$

in	17	8	16	10	9
out					

5 Rule: $x + 6$

in	3	1	4	2	8
out					

6 Rule: $x \times 8$

in	8	2	1	3	9
out					



Function Tables (In and Out)

Name: _____

Date: _____

Score: _____

Apply the rule to each input number and write the output.

1 Rule: $x - 2$

in	6	9	7	12	4
out					

2 Rule: $x \times 7 + 3$

in	8	2	3	5	1
out					

3 Rule: $x + 9$

in	3	9	2	7	1
out					

4 Rule: $x - 3$

in	13	10	7	11	9
out					

5 Rule: $x - 5$

in	15	7	13	6	11
out					

6 Rule: $x \times 4 + 1$

in	10	5	1	2	8
out					



One-Step Equations: Addition and Subtraction

Name: _____ Date: _____ Score: _____

Solve for x. Use the opposite operation to get x on its own, then check your answer.

1 $x - 7 = 2$ $x = \square$

2 $x + 6 = 14$ $x = \square$

3 $x - 10 = -8$ $x = \square$

4 $x - 5 = -3$ $x = \square$

5 $x + 12 = 16$ $x = \square$

6 $x + 6 = 21$ $x = \square$

7 $x + 3 = 11$ $x = \square$

8 $x - 4 = -1$ $x = \square$

9 $x - 5 = -1$ $x = \square$

10 $x - 2 = 5$ $x = \square$

11 $x - 2 = 9$ $x = \square$

12 $x - 9 = 5$ $x = \square$

13 $x - 7 = 7$ $x = \square$

14 $x + 5 = 17$ $x = \square$

15 $x - 2 = 4$ $x = \square$

16 $x - 10 = -2$ $x = \square$



One-Step Equations: Addition and Subtraction

Name: _____ Date: _____ Score: _____

Solve for x. Use the opposite operation to get x on its own, then check your answer.

1 $x - 12 = -9$ $x = \square$

2 $x + 10 = 16$ $x = \square$

3 $x + 11 = 13$ $x = \square$

4 $x - 7 = 4$ $x = \square$

5 $x - 10 = -1$ $x = \square$

6 $x - 8 = -2$ $x = \square$

7 $x + 8 = 17$ $x = \square$

8 $x - 8 = -3$ $x = \square$

9 $x + 7 = 11$ $x = \square$

10 $x + 8 = 16$ $x = \square$

11 $x + 2 = 8$ $x = \square$

12 $x + 4 = 11$ $x = \square$

13 $x + 5 = 15$ $x = \square$

14 $x - 3 = 6$ $x = \square$

15 $x - 6 = 7$ $x = \square$

16 $x - 4 = 4$ $x = \square$



One-Step Equations: Addition and Subtraction

Name: _____ Date: _____ Score: _____

Solve for x. Use the opposite operation to get x on its own, then check your answer.

1 $x - 3 = 2$ $x = \square$

2 $x + 7 = 21$ $x = \square$

3 $x + 7 = 10$ $x = \square$

4 $x - 11 = -3$ $x = \square$

5 $x + 6 = 21$ $x = \square$

6 $x - 11 = -9$ $x = \square$

7 $x - 3 = -1$ $x = \square$

8 $x + 7 = 16$ $x = \square$

9 $x + 9 = 19$ $x = \square$

10 $x - 12 = -1$ $x = \square$

11 $x + 9 = 12$ $x = \square$

12 $x - 2 = 9$ $x = \square$

13 $x + 7 = 17$ $x = \square$

14 $x + 3 = 13$ $x = \square$

15 $x - 3 = 1$ $x = \square$

16 $x - 2 = 6$ $x = \square$

Ch. 1 · Prime Factorization – Sheet A

1. 2×47	4. 2×5	7. 2×13	10. $2 \times 2 \times 2 \times 2 \times 2$
2. $2 \times 2 \times 2 \times 7$	5. $2 \times 2 \times 7$	8. 5×7	
3. 3×31	6. $2 \times 2 \times 2$	9. $2 \times 2 \times 2 \times 2 \times 5$	

Ch. 1 · Prime Factorization – Sheet B

1. 3×29	4. $2 \times 2 \times 5$	7. $2 \times 2 \times 2 \times 7$	10. $2 \times 3 \times 3 \times 3$
2. 3×7	5. $3 \times 5 \times 5$	8. $2 \times 3 \times 13$	
3. 7×13	6. 2×41	9. $2 \times 2 \times 23$	

Ch. 1 · Prime Factorization – Sheet C

1. $2 \times 2 \times 5 \times 5$	4. 2×7	7. $2 \times 3 \times 7$	10. $2 \times 3 \times 13$
2. $2 \times 5 \times 5$	5. $3 \times 3 \times 5$	8. $2 \times 3 \times 5$	
3. $2 \times 2 \times 2 \times 2 \times 5$	6. 3×5	9. $2 \times 3 \times 3 \times 5$	

Ch. 1 · Greatest Common Factor (GCF) – Sheet A

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

Ch. 1 · Greatest Common Factor (GCF) – Sheet B

1. 8	4. 8	7. 27	10. 8
2. 5	5. 21	8. 4	11. 11
3. 18	6. 4	9. 9	12. 28

Ch. 1 · Greatest Common Factor (GCF) – Sheet C

1. 2	4. 9	7. 11	10. 9
2. 18	5. 27	8. 12	11. 3
3. 4	6. 10	9. 8	12. 2

Ch. 1 · Least Common Multiple (LCM) – Sheet A

1. 21	4. 18	7. 99	10. 84
2. 28	5. 8	8. 40	11. 24
3. 33	6. 40	9. 33	12. 6

Ch. 1 · Least Common Multiple (LCM) – Sheet B

1. 24	4. 21	7. 132	10. 20
2. 28	5. 24	8. 15	11. 77
3. 12	6. 55	9. 60	12. 30

Ch. 1 · Least Common Multiple (LCM) – Sheet C

1. 72	4. 45	7. 35	10. 55
2. 45	5. 110	8. 77	11. 24
3. 66	6. 24	9. 18	12. 36

Ch. 1 · Divisibility Rules – Sheet A

1. No	5. Yes	9. Yes	13. No
2. No	6. Yes	10. Yes	14. Yes
3. Yes	7. No	11. Yes	15. No
4. Yes	8. No	12. Yes	16. No

Ch. 1 · Divisibility Rules – Sheet B

1. Yes	5. Yes	9. Yes	13. Yes
2. Yes	6. Yes	10. Yes	14. Yes
3. Yes	7. Yes	11. No	15. Yes
4. Yes	8. No	12. No	16. Yes

Ch. 1 · Divisibility Rules – Sheet C

1. Yes	5. No	9. No	13. Yes
2. Yes	6. Yes	10. Yes	14. Yes
3. Yes	7. Yes	11. No	15. Yes
4. No	8. Yes	12. No	16. No

Ch. 2 · Powers and Exponents – Sheet A

1. 16	6. 49	11. 36	16. 512
2. 9	7. 4,096	12. 625	17. 125
3. 256	8. 81	13. 4	18. 81
4. 343	9. 216	14. 6,561	
5. 1,296	10. 64	15. 25	

Ch. 2 · Powers and Exponents – Sheet B

1. 625	6. 27	11. 25	16. 6,561
2. 36	7. 64	12. 4,096	17. 16
3. 81	8. 256	13. 2,401	18. 512
4. 64	9. 81	14. 125	
5. 343	10. 49	15. 216	

Ch. 2 · Powers and Exponents – Sheet C

1. 4,096	6. 6,561	11. 64	16. 729
2. 16	7. 81	12. 16	17. 25
3. 36	8. 8	13. 64	18. 2,401
4. 125	9. 216	14. 27	
5. 49	10. 256	15. 4	

Ch. 2 · Powers of Ten – Sheet A

1. 100	5. 1,000	9. 1,000	13. 100
2. 600,000	6. 400,000	10. 700	14. 4,000
3. 1,000,000	7. 10	11. 10,000	15. 10
4. 600	8. 500	12. 200,000	16. 5,000

Ch. 2 · Powers of Ten – Sheet B

1. 100	5. 1,000	9. 1,000	13. 1,000
2. 5,000,000	6. 90	10. 6,000	14. 8,000
3. 10	7. 1,000,000	11. 100,000	15. 10,000
4. 7,000	8. 6,000	12. 90	16. 500,000

Ch. 2 · Powers of Ten – Sheet C

1. 100	5. 10	9. 10,000	13. 10
2. 90	6. 200	10. 600	14. 500,000
3. 10,000	7. 1,000	11. 100	15. 1,000,000
4. 6,000,000	8. 200	12. 3,000	16. 300

Ch. 2 · Squares and Square Roots – Sheet A

1. 144	5. 13	9. 2	13. 14
2. 10	6. 81	10. 15	14. 25
3. 4	7. 9	11. 7	
4. 6	8. 8	12. 11	

Ch. 2 · Squares and Square Roots – Sheet B

1. 4	5. 8	9. 10	13. 12
2. 13	6. 14	10. 7	14. 6
3. 121	7. 25	11. 2	
4. 9	8. 9	12. 15	

Ch. 2 · Squares and Square Roots – Sheet C

1. 15	5. 3	9. 12	13. 8
2. 9	6. 14	10. 169	14. 25
3. 49	7. 16	11. 11	
4. 6	8. 10	12. 2	

Ch. 3 · Writing Ratios – Sheet A

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

Ch. 3 · Writing Ratios – Sheet B

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

Ch. 3 · Writing Ratios – Sheet C

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

Ch. 3 · Equivalent Ratios – Sheet A

1. 49	4. 35	7. 24	10. 14
2. 45	5. 12	8. 18	11. 18
3. 16	6. 20	9. 70	12. 30

Ch. 3 · Equivalent Ratios – Sheet B

1. 56	4. 63	7. 18	10. 30
2. 6	5. 7	8. 6	11. 6
3. 30	6. 21	9. 35	12. 40

Ch. 3 · Equivalent Ratios – Sheet C

1. 35	4. 30	7. 48	10. 54
2. 24	5. 5	8. 36	11. 36
3. 35	6. 64	9. 16	12. 4

Ch. 3 · Function Tables (In and Out) – Sheet A

- | | | |
|----------------------|-----------------------|-----------------------|
| 1. 3, 8, 4, 6, 5 | 3. 15, 8, 10, 11, 13 | 5. 4, 1, 3, 6, 5 |
| 2. 48, 6, 12, 24, 60 | 4. 21, 42, 70, 49, 63 | 6. 14, 16, 15, 11, 12 |

Ch. 3 · Function Tables (In and Out) – Sheet B

- | | | |
|-----------------------|-------------------|----------------------|
| 1. 7, 4, 8, 9, 3 | 3. 9, 3, 10, 6, 8 | 5. 9, 7, 10, 8, 14 |
| 2. 53, 37, 77, 21, 85 | 4. 10, 1, 9, 3, 2 | 6. 64, 16, 8, 24, 72 |

Ch. 3 · Function Tables (In and Out) – Sheet C

- | | | |
|-----------------------|-----------------------|---------------------|
| 1. 4, 7, 5, 10, 2 | 3. 12, 18, 11, 16, 10 | 5. 10, 2, 8, 1, 6 |
| 2. 59, 17, 24, 38, 10 | 4. 10, 7, 4, 8, 6 | 6. 41, 21, 5, 9, 33 |

Ch. 3 · One-Step Equations: Addition and Subtraction – Sheet A

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

Ch. 3 · One-Step Equations: Addition and Subtraction – Sheet B

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

Ch. 3 · One-Step Equations: Addition and Subtraction – Sheet C

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