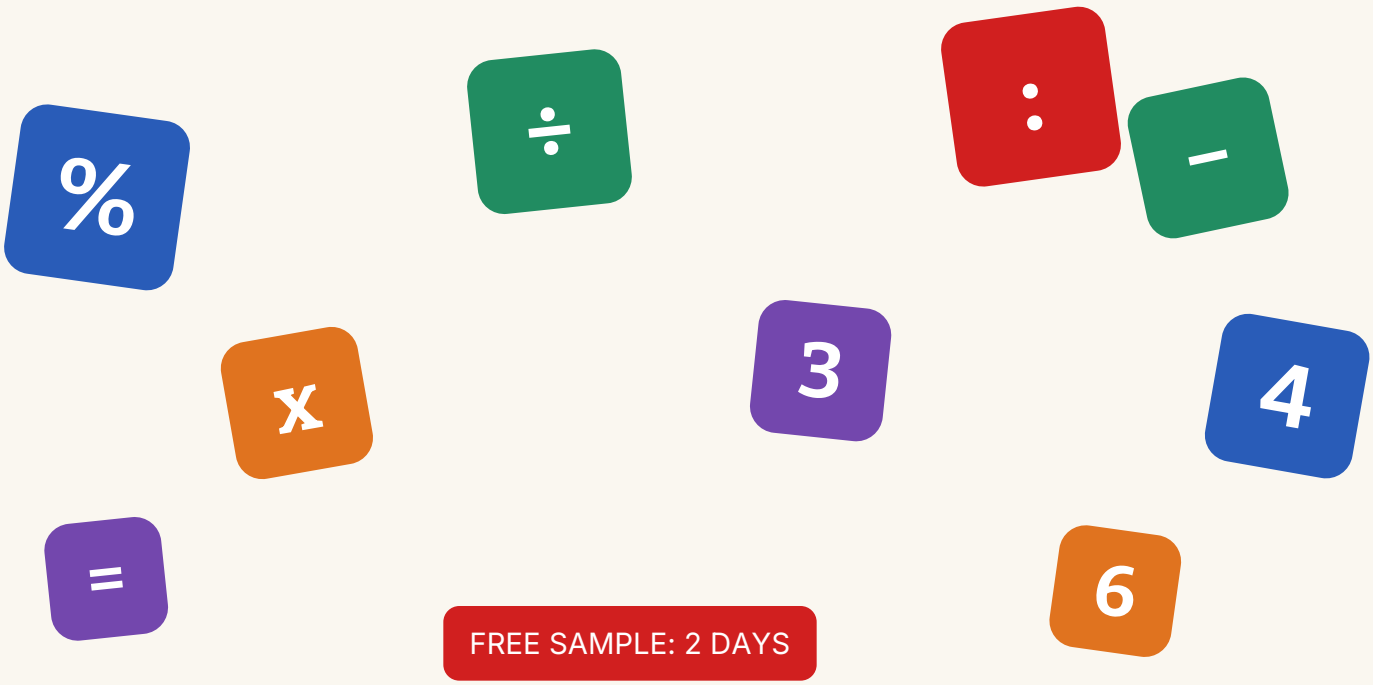


FREE SAMPLE: 2 DAYS

MATHIFY KIDS • PRINTABLE WORKBOOK

Grade 6 Math in 30 Days

One page a day of mixed review, about 20 minutes

- 30 days of mixed practice
- 8 tip sheets with worked examples
- Start and finish tests
- Answer key with worked solutions
- Progress chart + certificate

This workbook belongs to: _____

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How to use this workbook

A page for parents and teachers

1. **Take the start test.**
   Before day 1, do the start test. It shows where your child begins. Don't help; it is a snapshot, not a grade.
2. **One page a day.**
   Each day has 8 quick facts, 6 mixed questions and 1 word problem: 10 to 20 minutes, pencil and paper, no calculator.
3. **Stuck? Use the tip sheets.**
   Every question shows a tip number. The tip sheets near the front explain each topic with worked examples and a common mistake.
4. **Check it together.**
   Use the answer key at the back, which shows how to solve every word problem. Rework one mistake together each day.
5. **Finish strong.**
   After day 30, take the finish test. Write both scores on the progress chart and see how far your child has come.

What it covers

Ratios and rates	equivalent ratios, unit rates, ratio problems (6.RP.1-3)
Percents	percent of a number, finding the percent and the whole (6.RP.3c)
Fractions and decimals	dividing fractions, decimal operations (6.NS.1-3)
Integers	absolute value, comparing negatives (6.NS.5-7)
Factors and multiples	GCF and LCM (6.NS.4)
Expressions and equations	evaluating, exponents, one-step equations (6.EE.1-7)
Geometry	area of triangles (6.G.1)
Statistics	mean and median (6.SP.5)

How the 30 days build

Days 1–10	Getting started: ratios, percents of numbers, whole ÷ fraction.
Days 11–20	Building up: squares, fraction ÷ fraction, percent of a whole.
Days 21–30	Challenge: percents in facts, the whole from a percent, x^2 expressions.

Days 10, 20 and 30 are review days: a good time to look back at the scores together.

Stuck on a topic?

Every topic has free lessons, games and level quizzes at mathifykids.com, for example mathifykids.com/ratios and mathifykids.com/percentages. The free grade 6 check-up at mathifykids.com/math-check-up shows which topics need the most work. Scan the code to start it.

FREE CHECK-UP

TIP SHEET 3

Dividing fractions, decimal operations

The big idea

To divide by a fraction, multiply by its reciprocal: flip the second fraction upside down. Keep, change, flip.

PRACTICE ONLINE

EXAMPLE 3/4 ÷ 1/8

$$\frac{3}{4} \div \frac{1}{8} = 6$$

1. Keep 3/4, change ÷ to ×, flip 1/8 to 8/1.
2. 3/4 × 8/1 = 24/4.
3. 24/4 = 6. Check: six eighths make 3/4.

EXAMPLE 4.5 × 1.2

1. Ignore the points: 45 × 12 = 540.
2. Count the decimal places in the question: 1 + 1 = 2.
3. Give the answer 2 places: 5.40, which is 5.4.

WATCH OUT

To divide by a decimal, move both points the same number of places: 7.2 ÷ 0.6 is the same as 72 ÷ 6 = 12.

Your turn

1. 2 ÷ 1/4 = ? _____
2. 2/3 ÷ 1/6 = ? _____
3. 0.8 × 0.3 = ? _____

Work space

Answers: 1. 8 2. 4 3. 0.24

Day 1

Getting started
Day one. Let's go!

Name _____ Date _____ Score _____ / 15

Warm-up • Facts

1. 10 × 10 = _____
2. 132 ÷ 12 = _____
3. 11 × 5 = _____
4. 27 ÷ 9 = _____
5. 12 × 12 = _____
6. 96 ÷ 8 = _____
7. 9 × 9 = _____
8. 110 ÷ 11 = _____

Mixed practice

9. 232 miles in 4 hours. What is the unit rate in miles per hour? TIP 1

_____

10. TIP 2

10% of 200 = _____

11. TIP 3

31.61 − 9.6 = _____

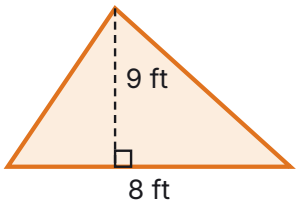
12. TIP 4

$|-9| + |3|$ = _____

13. TIP 6

5^3 = _____

14. What is the area of the triangle? TIP 7



_____ sq ft

Word problem

TIP 8

15. A triangular garden has a base of 14 m and a height of 4 m. What is its area?

Answer _____

Show your work:

RIDDLE OF THE DAY (answer in the key)
How many legs do 4 cats and 2 chickens have?

Day 2

Getting started
Nice start. Keep it rolling!

Name _____ Date _____ Score _____ / 15

Warm-up • Facts

1. 11 × 4 = _____
2. 40 ÷ 8 = _____
3. 6 × 6 = _____
4. 30 ÷ 6 = _____
5. 10 × 9 = _____
6. 80 ÷ 10 = _____
7. 6 × 7 = _____
8. 90 ÷ 10 = _____

Mixed practice

9. TIP 1

$2 : 1 = 12 :$ _____

10. What percent of 80 is 64? TIP 2

_____

11. Divide. Simplify. TIP 3

$2 \div \frac{2}{4} =$ _____

12. Write <, > or =. TIP 4

-12 ☐ -2

13. Find the value of $7x + 12$ when $x = 2$. TIP 6

_____

14. Find the mean of 17, 21, 7 and 7. TIP 7

_____

Word problem

TIP 8

15. A jacket costs $60. It is on sale for 20% off. How much is the discount?

Answer _____

Show your work:

RIDDLE OF THE DAY (answer in the key)
How many legs do 2 cats and 3 chickens have?

Answer key

Days 1–2

Day 1

1.	100		6.	12		11.	22.01	tip 3
2.	11		7.	81		12.	12	tip 4
3.	55		8.	10		13.	125	tip 6
4.	3		9.	58	tip 1	14.	36 sq ft	tip 7
5.	144		10.	20	tip 2	15.	28 sq m	tip 8

How to solve 9: amount for 1: 232 ÷ 4 = 58
How to solve 15: 14 × 4 = 56; 56 ÷ 2 = 28
Riddle: 20

Day 2

1.	44		6.	8		11.	4	tip 3
2.	5		7.	42		12.	<	tip 4
3.	36		8.	9		13.	26	tip 6
4.	5		9.	6	tip 1	14.	13	tip 7
5.	90		10.	80%	tip 2	15.	$12	tip 8

How to solve 9: scale factor: 12 ÷ 2 = 6; 1 × 6 = 6
How to solve 15: 20% of $60: 60 × 20 ÷ 100 = $12
Riddle: 14

Enjoyed the sample? Get all 30 days.

The full workbook has 30 daily pages that get harder week by week, 8 tip sheets with worked examples, start and finish tests, a progress chart, a certificate and the full answer key. Print it as many times as you like for your family or class.

mathifykids.com/printable-math-workbooks/