
UM PRINTABLES

Grade 6 Math Bell Ringer Bundle

180 Days of Daily Spiral Review
900 Problems · 36 Weekly Quizzes · Complete Answer Keys

Full-Year Coverage:

Days 1-30 — Ratios & Proportions + Number System Foundations

Days 31-60 — Rational Numbers & Coordinate Plane

Days 61-90 — Expressions & Equations

Days 91-120 — Geometry & Statistics/Probability

Days 121-150 — Mixed Spiral Review

Days 151-180 — Full Cumulative Review

A premium resource for daily spiral review.

Aligned to Common Core State Standards (CCSS) for Grade 6 Mathematics.

Compatible with TEKS Grade 6 Mathematics standards.

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Complete 180-day plan — covers all six parts of this bundle.

Part 1 — Ratios & Proportions + Number System Foundations (Days 1-30)

- Days 1-5:** Introduction to Ratios (6.RP.A.1)
- Days 6-10:** Unit Rate & Rate Problems (6.RP.A.2)
- Days 11-15:** Percentages & Proportions (6.RP.A.3)
- Days 16-20:** Fraction Division (6.NS.A.1)
- Days 21-25:** Multi-Digit Division & Decimal Operations (6.NS.B.2-3)
- Days 26-30:** GCF, LCM & Prime Factorization (6.NS.B.4)

Part 2 — Rational Numbers & Coordinate Plane (Days 31-60)

- Days 31-35:** Integers in Real-World Contexts (6.NS.C.5)
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- Days 41-45:** Ordering & Absolute Value (6.NS.C.7)
- Days 46-50:** Coordinate Plane Graphing & Distance (6.NS.C.8)
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Part 4 — Geometry & Statistics/Probability (Days 91-120)

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Part 5 — Mixed Spiral Review (Days 121-150)

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Daily Warm-Ups

Days 1–30

PREVIEW

1

DAY 1

Ratios & Proportional Relationships

Skill: Understanding Ratio Concepts

6.RP.A.1

'I Can' Statement: I can write and describe a ratio between two quantities.

1. A classroom library has 24 mystery books and 36 biographies. Write the ratio of mystery books to biographies in three different ways.

2. In Maya's bead collection, there are 15 red beads, 10 blue beads, and 25 green beads. What is the ratio of blue beads to the total number of beads?

3. A smoothie recipe uses 2 cups of strawberries and 3 cups of yogurt. If you triple the recipe, how many cups of each ingredient do you need, and what is the new ratio?

4. On a farm, the ratio of chickens to pigs is 5 to 2. If there are 35 chickens, how many pigs are on the farm? Show your reasoning.

5. A fruit basket contains apples, oranges, and bananas in the ratio 4:3:2. If there are 18 pieces of fruit total, how many of each type are in the basket?

9

DAY 9

Ratios & Proportional Relationships

Skill: Percent Change

6.RP.A.3

'I Can' Statement: I can calculate percent increase and decrease.

1. A plant was 24 cm tall last month. Now it is 30 cm tall. What is the percent increase in its height?

2. A video game was \$60 and is now on sale for \$42. What is the percent decrease in price?

3. A school's enrollment grew from 500 students to 540 students in one year. What is the percent increase?

4. A laptop's value dropped from \$1,200 to \$900 over two years. What is the percent decrease in value?

5. Last week a coffee shop sold 80 cups of coffee. This week they sold 104 cups. What is the percent increase in sales?

Weekly Quiz 1 — Ratios & Unit Rate

6.RP.A.1–6.RP.A.2 (Days 1–5)

Directions: Solve each problem. Show your work in the space provided. Write your final answer on the line provided.

1. A cookie jar has 18 chocolate chip cookies and 12 oatmeal cookies. Write the ratio of oatmeal to total cookies in simplest form.

2. Find the unit rate: 320 miles on 10 gallons of gas.

3. Are 6:9 and 24:36 equivalent? Justify.

4. A bakery sells 8 muffins for \$12. What is the unit price per muffin?

5. In a class, the ratio of boys to girls is 3:4. If there are 28 students, how many boys are there?

6. A printer prints 240 pages in 4 minutes. How many pages per minute is that?

7. Write three equivalent ratios to 5:2.

8. Store A: 4 pens for \$3.20. Store B: 7 pens for \$4.90. Which is cheaper per pen?

9. A garden has 15 tomatoes and 25 peppers. What fraction are tomatoes?

10. A recipe uses 2 cups of sugar for 5 cups of flour. How much sugar for 15 cups of flour?

Day 1 Answer Key — Ratios & Proportional Relationships

- 24:36, 24 to 36, 24/36. Simplify by dividing both by 12 → **2:3**.
- Blue = 10. Total = $15 + 10 + 25 = 50$. Ratio = $10:50 = \mathbf{1:5}$.
- Strawberries: $2 \times 3 = 6$ cups. Yogurt: $3 \times 3 = 9$ cups. New ratio = $6:9 = \mathbf{2:3}$ (the ratio stays the same when scaled).
- 5 parts = 35 chickens, so 1 part = 7 animals. Pigs = 2 parts = $2 \times 7 = \mathbf{14}$ pigs.
- Total parts = $4 + 3 + 2 = 9$. One part = $18 \div 9 = 2$. Apples = $4 \times 2 = \mathbf{8}$, Oranges = $3 \times 2 = \mathbf{6}$, Bananas = $2 \times 2 = \mathbf{4}$.

Day 2 Answer Key — Ratios & Proportional Relationships

- Guinea pigs = 8. Total = $12 + 8 = 20$. Ratio = $8/20 = \mathbf{2/5}$.
- Cars:Trucks = $18:12 = \mathbf{3:2}$. Trucks:Total = $12:(18+12) = 12:30 = \mathbf{2:5}$.
- Not daffodils = $16 + 8 = 24$. Total = $16 + 12 + 8 = 36$. Fraction = $24/36 = \mathbf{2/3}$.
- Not-4 rolls = $30 - 6 = 24$. Ratio = $24:30 = \mathbf{4:5}$.
- Example 1 — Girls:Boys = $24:16 = 3:2$ (for every 3 girls there are 2 boys). Example 2 — Boys:Total = $16:40 = 2:5$ (2 of every 5 choir members are boys).

Day 3 Answer Key — Ratios & Proportional Relationships

- Each step multiplies by the same factor. Flour: 3, 6, 12, 15, 18. Sugar: 2, 4, 8, 10, 12. Missing values: **12 flour, 4 sugar, 10 sugar, 12 sugar**.
- Yes. $24 \div 4 = 6$ and $36 \div 4 = 9$, so $24:36 = 6:9$. Both simplify to 2:3.
- 4 notebooks → \$10. Triple the notebooks: $12 \rightarrow \$10 \times 3 = \mathbf{\$30}$.
- Cranberry doubled ($5 \rightarrow 10$), so ginger ale also doubles: $2 \times 2 = \mathbf{4}$ cups of ginger ale.
- Multiply both quantities by 6: $8 \times 6 = 48$ muffins. So $8:1 = \mathbf{48:6}$. Strategy: scale both parts by the same number.

Day 4 Answer Key — Ratios & Proportional Relationships

- $\$3.60 \div 12 \text{ oz} = \mathbf{\$0.30}$ per ounce.
- $240 \div 8 = \mathbf{30}$ miles per gallon.
- Per minute: $360 \div 6 = \mathbf{60}$ pages/min. In 10 minutes: $60 \times 10 = \mathbf{600}$ pages.
- Per day: $144 \div 4 = 36$ pages/day. In 9 days: $36 \times 9 = \mathbf{324}$ pages.
- Store A: $\$1.75 \div 5 = \$0.35$ per pencil. Store B: $\$2.64 \div 8 = \$0.33$ per pencil. **Store B is cheaper.**

Day 5 Answer Key — Ratios & Proportional Relationships

- Per minute: $5 \div 25 = \mathbf{0.2}$ km/min. Per hour: $0.2 \times 60 = \mathbf{12}$ km/h.

Weekly Quiz 1 — Ratios & Unit Rate — Answer Key

1. $12:30 = 2:5$
2. 32 mpg
3. Yes — both simplify to 2:3
4. \$1.50 per muffin
5. $3+4=7$ parts; $28 \div 7=4$; boys $= 3 \times 4=12$
6. 60 pages/min
7. 10:4, 15:6, 20:8 (any three)
8. A: \$0.80; B: \$0.70 → Store B
9. $15/40 = 3/8$
10. Scale by 3 → 6 cups of sugar

Weekly Quiz 2 — Percent & Proportions — Answer Key

1. $0.30 \times 80 = 24$
2. $\$50 - \$10 = \$40$
3. $21/25 = 84\%$
4. $18 \div 0.60 = 30$
5. $3.5 \times 15 = 52.5$ miles
6. $5/20 = 25\%$
7. Tax \$3.20, Tip \$8, Total \$51.20
8. $50/200 = 25\%$
9. Both 0.75 — equivalent
10. $0.75 \text{ walls/hr} \times 10 = 7.5 \text{ walls}$

Weekly Quiz 3 — RP Mixed Review — Answer Key

1. $4.5 \times 12 = 54$ in
2. 7 parts = 35, so 1 part = 5; smaller = $3 \times 5 = 15$
3. \$0.15/oz
4. Scale 5→30 means $\times 6$; oil = $2 \times 6 = 12$ tbsp
5. $0.15 \times 240 = 36$
6. $\$72 - \$18 = \$54$
7. \$15
8. P: \$0.50; Q: \$0.45 → Q

Daily Warm-Ups

Days 91–120

PREVIEW

Daily Warm-Ups

Days 151–180

PREVIEW

180

DAY 180

End-of-Year Full Cumulative Review

Skill: Final mixed review across all Grade 6 standards

All

'I Can' Statement: I can solve problems spanning all five Grade 6 critical areas.

1. A survey of 200 students found that 42% prefer math, 33% prefer reading, and the rest prefer science. How many students prefer science?

2. Compute: $-15 + (-7) \times 3 + 24 \div (-6)$.

3. Simplify: $5(3x - 4) - 2(2x + 7)$.

4. A cube has a surface area of 294 cm^2 . Find its volume.

5. A data set has mean 18, median 16, and mode 14. Which measure best describes the typical value if the data set is skewed right by an outlier?

Weekly Quiz 36 — End-of-Year Full Cumulative Review

All Standards (Days 176–180)

Directions: Solve each problem. Show your work in the space provided. Write your final answer on the line provided.

1. A \$120 jacket is on sale for 25% off. A 6% sales tax is applied to the sale price. Find the final price.

2. Compute: $-5 \times 6 + 18 \div (-2)$.

3. Simplify: $4(3x - 5) - 2(x + 4)$.

4. Solve for x: $6x + 9 = 51$.

5. A car travels 288 miles in 4.5 hours. What is the unit rate?

6. A rectangular prism is 9 by 6 by 5. Find its volume.

7. Find the surface area of a cube with edge length 11 cm.

8. Find the mean of: 24, 18, 32, 14, 27.

9. On a map, 1 inch represents 8 miles. Two cities are 3.5 inches apart on the map. What is the actual distance?

10. A data set has 8 values with mean 20. If a value of 12 is removed, what is the new mean? Round to the nearest hundredth.

Day 151 Answer Key — Ratio Language & Tables

1. Nonfiction : Fiction = **4:9 = 4 to 9 = 4/9**.
2. Ratio flour:sugar = $6:2 = 3:1$. Sugar = flour $\div$ 3. For 12: 4; for 18: 6; for 24: 8. **Sugar = 4, 6, 8 cups.**
3. Total = $15 + 35 = 50$. Ratio = $15:50 = \mathbf{3:10}$.
4. Total = $18 + 12 = 30$. Girls:Total = $12:30 = \mathbf{2:5}$.
5. Total parts = $5+3+2 = 10$. Each part = $30 \div 10 = 3$. Apples = $5 \times 3 = 15$; Oranges = $3 \times 3 = 9$; Bananas = $2 \times 3 = 6$. **15 apples, 9 oranges, 6 bananas.**

Day 152 Answer Key — Unit Rates & Comparisons

1. Store A: $6.40 \div 8 = \$0.80/\text{pen}$. Store B: $9.00 \div 12 = \$0.75/\text{pen}$. **Store B has the better buy.**
2. $18 \div 12 = \mathbf{1.5 \text{ laps per minute}}$.
3. Unit rate = $75 \div 5 = 15 \text{ pages/min}$. In 12 min: $15 \times 12 = \mathbf{180 \text{ pages}}$.
4. X: $4.20 \div 21 = \$0.20/\text{oz}$. Y: $5.40 \div 27 = \$0.20/\text{oz}$. **Same unit price; either is equally good.**
5. Unit rate = $240 \div 8 = 30 \text{ gal/hr}$. Time for 450 gal = $450 \div 30 = \mathbf{15 \text{ hours}}$.

Day 153 Answer Key — Percent of a Number & Applications

1. $0.24 \times 350 = \mathbf{84}$.
2. Tax = $0.065 \times 720 = \$46.80$. Total = $720 + 46.80 = \mathbf{\$766.80}$.
3. $12 \div 25 = 0.48 = \mathbf{48\%}$.
4. Sale price = 65% of original = $0.65p = 26 \rightarrow p = 26 \div 0.65 = \mathbf{\$40}$.
5. Increase = $300 - 240 = 60$. Percent increase = $60 \div 240 = 0.25 = \mathbf{25\%}$.

Day 154 Answer Key — Percent Change, Error & Real-World Models

1. Tip = $0.20 \times 58 = \$11.60$. Total = $58 + 11.60 = \mathbf{\$69.60}$.
2. Error = $|5 - 4| = 1$. Percent error = $1 \div 4 = 0.25 = \mathbf{25\%}$.
3. Decrease = $80 - 68 = 12$. Percent decrease = $12 \div 80 = 0.15 = \mathbf{15\%}$.
4. Increase = $250 - 200 = 50$. Percent increase = $50 \div 200 = 0.25 = \mathbf{25\%}$.
5. First discount: $0.60 \times 120 = \$72$. Second discount: $0.75 \times 72 = \mathbf{\$54}$.

Day 155 Answer Key — Proportional Relationships

1. Cross-multiply: $9x = 6 \times 27 = 162$. $x = 162 \div 9 = \mathbf{18}$.
2. Proportion: flagpole/15 = 4/3. Flagpole = $15 \times (4/3) = \mathbf{20 \text{ feet}}$.

What's Inside the Complete Bundle

Grade 6 Math Bell Ringer — 180 Days of Daily Warm-Ups

180

Daily
Warm-Ups

36

Weekly
Quizzes

1,260

Problems
Total

6

Parts
Bundle

Bundle Structure

Part 1	Days 1–30	Ratios & Proportional Relationships, The Number System
Part 2	Days 31–60	Expressions & Equations, Geometry
Part 3	Days 61–90	Statistics & Probability, Multi-Standard Synthesis
Part 4	Days 91–120	Mixed Spiral Review — All Five Critical Areas
Part 5	Days 121–150	Mid-Year Cumulative Review & Error Analysis
Part 6	Days 151–180	End-of-Year Full Cumulative Review

Standards & Features

- ✓ CCSS Aligned (6.RP, 6.NS, 6.EE, 6.G, 6.SP)
- ✓ TEKS Aligned (Grade 6 Mathematics)
- ✓ Five 30-day parts — 180 days total
- ✓ Six weekly quizzes per part — 36 total
- ✓ Worked solutions for every problem
- ✓ Compact answer keys — quick grading
- ✓ Real-world contexts & varied problem types
- ✓ Print-ready vector PDF — 316 pages

Get the Full 180-Day Bundle on TPT

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