June 2026

Dear 6th Grade Families,

The incoming 7th-grade students are expected to read at least **two** books over the summer. Students are encouraged to read additional books as well. The assigned summer reading book for the Rising OLL 7th Grade students is titled **A Place to Belong** by Cynthia Kadohata. This novel will tie into the unit on Japanese internment in World War II that students will learn in 7th grade. The second assigned book is of your choosing. You may choose any book that meets the following criteria:

- Must be your reading level or above
- You can choose one regular novel, or two graphic novels

**School Library Journal** says:

World War II has ended and 12-year-old Hanako, her five-year old brother Akira, and their American-born parents have spent the past four years imprisoned in a series of internment camps. Hana's parents accept an offer from the U.S. government to renounce their American citizenship and expatriate to Japan. Their plan is to live with Hanako's father's parents, poor tenant farmers outside the city of Hiroshima. Hanako is hopeful for her family's new chance in Japan and immediately loves her Jiichan and Baachan but is faced with the realities of life in an unfamiliar, war-blighted country. Resources are scarce; as her family toils endlessly to keep food in the house, Hanako is torn between providing for her family and sharing what little she has with the people she encounters around Hiroshima. In her trademark style, Kadohata unfurls the complex web of the girl's inner thoughts in a concise yet cutting third-person narrative. Hanako attempts to discern what it means to be good and how to belong in a place where one is not truly welcome. An afterword gives further details on the history of internment and expatriate Americans in Japan.

**A Place to Belong** is available at the Seattle Public Library and all bookstores.

Each student must complete the writing assignment listed below:

**Writing Assignment:**

Write a friendly letter to me, Miss Creighton, about the following:

1. **A Place to Belong**
    - Tell me about the **settings** of the book: time and place (make sure to include all the important settings)

- Tell me about the **main character,** Hanako. What character traits did you admire in her (give specific examples from the book, including PAGE #'S)? What character traits did you not admire (give specific examples from the book, including PAGE #'S)? Give reasons about why you felt this way about Hanako.
- What did you learn about this time period in history? What more do you want to learn? (We will study Japanese Internment in 7th grade.)
- Would you recommend other 7th-grade students read this book? Why or why not? Make sure to give specific reasons.

2. What was the second book you chose to read over the summer? Did you like it and why? Please summarize the story.
3. Tell me about one fun thing you did this summer.

**Requirements for this paper are:**

- This should be **typed and double-spaced**.
- You should write at least **5-6 paragraphs**.
- Make sure you include the **page numbers** in your paper for the "evidence" to support your answers.
- This should be in a **friendly letter format**.
- Have someone **proofread** your paper before you turn it in.

Please join Miss Creighton's 2026-27 Humanities Google Classroom. Your Google Classroom code is: v4n43kem

I hope you have a wonderful summer. Please contact me via e-mail, mcreighton@ollseattle.org, with any questions about the attached information.

READ, READ, READ, READ, READ, READ, READ, READ, READ!!!

*Miss Creighton*

Item due the first day of school:

_____ *Letter to Miss Creighton*

SUMMER LEARNING PACKET

INCOMING 7TH GRADE

# Summer Math

9 WEEKS · NO CALCULATOR · 50–60 MIN / WEEK



9 WEEKS

### HOW TO USE THIS PACKET

Each week has two parts. Aim for 50–60 minutes total spread across a few days. If you hit 60 minutes, circle where you stopped — you're done for the week. Each week, always start at the beginning of that week's section, not where you left off the week before.

### PACING TARGET

29 problems per week. Part 1 is 15 problems (~25–30 min). Part 2 is 14 problems + an optional challenge (~25–30 min).

### FOR PARENTS & GUARDIANS

Please support your student in working through this packet independently. **No calculators for any problem.** Packets will be collected in the fall and reviewed for completion.

| STUDENT NAME | GRADE ENTERING | DATE RECEIVED |
| --- | --- | --- |
| | | |

> **NOTEBOOK REMINDER**
>
> If you need extra space to show your work, use a notebook. Keep your work organized — label each page with the **date**, **week number**, and **problem number**. Bring your notebook *and* your completed packet on the first day of school.

# Week 1 of 9

Fractions & decimals review

WEEK 1 OF 9

Name: _____ Date completed: _____

> **No calculators this summer.** Work by hand — that's where the learning happens. If you hit **60 minutes**, circle where you stopped and put the packet away. You're done for the week.

## Part 1 *~25–30 minutes · 15 problems*

### WARM-UP (5 problems)

1. $\frac{3}{4} \times \frac{8}{9} =$ _____
   Answer: _____
2. $2\frac{1}{2} \div \frac{5}{8} =$ _____
   Answer: _____
3. $3\frac{1}{2} - 1\frac{2}{3} =$ _____
   Answer: _____
4. $3.14 \times 2.5 =$ _____
   Answer: _____
5. $12.6 \div 0.6 =$ _____
   Answer: _____

### CORE PRACTICE (7 problems)

6. $1\frac{2}{3} + 2\frac{1}{4} =$ _____
   Answer: _____
7. $2\frac{3}{4} \times 1\frac{1}{5} =$ _____
   Answer: _____
8. $7.2 - 4.65 =$ _____
   Answer: _____
9. $0.25 \times 0.04 =$ _____
   Answer: _____
10. Write $\frac{7}{8}$ as a decimal and as a percent.
    Answer: _____

(11) Order from least to greatest: $\frac{5}{6}$, 0.62, 61%, $\frac{3}{5}$, 0.625

Answer: _____

(12) A decimal has 2 places. Multiplied by 100 it becomes 84.5. What is the decimal? What is $\frac{3}{4}$ of it?

Answer: _____

**WORD PROBLEMS** (3 problems)

(13) A runner's times for 5 races (minutes): 28.4, 29.1, 27.8, 30.2, 28.5. Total time? Average time per race?

Show your work:

Total: _____ Average: _____

(14) A recipe calls for 2 $\frac{1}{4}$ cups of flour. You want to make 1 $\frac{1}{2}$ times the recipe. How much flour?

Show your work:

Answer: _____

(15) A bolt of ribbon is 12 $\frac{1}{2}$ yards. A seamstress uses $\frac{2}{3}$ of it for one project and 1 $\frac{3}{4}$ yards for another. How many yards are left?

Show your work:

Answer: _____

⏱ **At 60 minutes:** circle the last problem you completed and put the packet away. You're done for the week!

**Part 2** *~25–30 minutes · 14 problems + optional challenge*

**PUSHING FURTHER** (6 problems)

*These problems require more reasoning. Show all steps.*

(16) $\frac{3}{4} + \frac{5}{6} - \frac{1}{3} =$ _____

17. Three friends share trail mix. Ana: $\frac{1}{3}$, Ben: $\frac{1}{4}$, Cara: $\frac{1}{6}$. Fraction left? If bag held 24 oz, how many ounces remain?

18. $3.6 \div 0.012 =$ _____

19. A car gets 34.5 mpg. Gas costs $3.89/gallon. How much to drive 207 miles?

20. A decimal number rounds to 7.4 to the nearest tenth. Smallest possible value? Largest?

21. Using only the digits 1, 2, 3, and 4 (each used once), create two fractions whose sum is as close to 1 as possible.

**MULTI-STEP WORD PROBLEMS** (3 problems)

22. A tank is $\frac{3}{4}$ full and holds 32 gallons when completely full. If $\frac{1}{3}$ of the current water is used, how many gallons remain?

Show your work:

Answer: _____

23. Three friends split a restaurant bill of $67.50 equally plus an 18% tip of $12.15. How much does each person pay?

Show your work:

Answer: _____

24. A plank is $6\frac{3}{4}$ feet. Cut into pieces each $\frac{3}{4}$ foot long. How many pieces? Any remaining?

Show your work:

Pieces: _____ Remaining: _____

**SPIRAL REVIEW** (5 problems)

↻ **Spiral Review — Week 6th grade**

25. What is the area of a rectangle 15 cm long and 8 cm wide?

Answer: _____

↻ **Spiral Review — Week 6th grade**

(26) Find the volume: 8 cm × 6 cm × 5 cm.

Answer: _____

↻ Spiral Review — Week 6th grade

(27) A car travels 240 miles in 4 hours. Unit rate?

Answer: _____

↻ Spiral Review — Week 6th grade

(28) Find the mean of: 12, 18, 9, 15, 21.

Answer: _____

↻ Spiral Review — Week 6th grade

(29) Write $\frac{5}{8}$ as a decimal and as a percent.

Answer: _____

**★ CHALLENGE — OPTIONAL**

A decimal number is multiplied by itself and gives 0.5625. What is the number? *(Hint: think about what × what = 5,625 first.)*

Answer: _____

**WEEKLY REFLECTION**

*What felt hardest this week? What felt easy or satisfying?*

Parent/guardian sign-off: _____ Date: _____

# **Week 2** of 9

GCF, LCM & fraction/decimal/percent conversions

WEEK 2 OF 9

Name: _____ Date completed: _____

> **No calculators this summer.** Work by hand — that's where the learning happens. If you hit **60 minutes**, circle where you stopped and put the packet away. You're done for the week.

## Part 1 *~25–30 minutes · 15 problems*

### WARM-UP (5 problems)

1. List all factors of 36. What is the GCF of 36 and 48?

   Answer: _____

2. What is the LCM of 6 and 8?

   Answer: _____

3. Write 0.45 as a fraction in simplest form.

   Answer: _____

4. Write $\frac{3}{5}$ as a decimal and as a percent.

   Answer: _____

5. Write 72% as a fraction in simplest form and as a decimal.

   Answer: _____

### CORE PRACTICE (7 problems)

6. Find the GCF of 24 and 60.

   Answer: _____

7. Find the LCM of 4, 6, and 9.

   Answer: _____

8. Write 0.625 as a fraction in simplest form.

   Answer: _____

9. Order from least to greatest: 65%, 0.6, $\frac{2}{3}$, 0.605

   Answer: _____

10. Write 1.35 as a mixed number in simplest form.

    Answer: _____

(11) Two buses leave the station together. Bus A every 12 minutes, Bus B every 18 minutes. When will they next leave together?

Answer: _____

(12) If GCF(a,b) = 6 and LCM(a,b) = 36, what could a and b be? Give two possible pairs.

Answer: _____

**WORD PROBLEMS** (3 problems)

(13) Hot dogs come in packs of 8, buns in packs of 6. Smallest number of packs to buy with no leftovers?

Show your work:

Hot dog packs: _____ Bun packs: _____

(14) A store has 48 apples and 36 oranges to arrange in identical groups with no fruit left over. Greatest number of groups? How many of each fruit per group?

Show your work:

Groups: _____ Apples per group: _____ Oranges per group: _____

(15) A student scored 18 out of 24 on a quiz. Write as a fraction, decimal, and percent.

Show your work:

Fraction: _____ Decimal: _____ Percent: _____

⏱ **At 60 minutes:** circle the last problem you completed and put the packet away. You're done for the week!

**Part 2** *~25–30 minutes · 14 problems + optional challenge*

**PUSHING FURTHER** (6 problems)

*These problems require more reasoning. Show all steps.*

(16) Find the GCF of 84 and 126 using prime factorization.

(17) Order from least to greatest: $\frac{5}{8}$, 0.62, 61%, $\frac{3}{5}$, 0.625

(18) A fraction has denominator 12. It is between 0.4 and 0.5. What could it be? Is there more than one answer?

19. Three friends run laps. Ana: every 4 minutes, Ben: every 6 minutes, Cara: every 9 minutes. After how many minutes will all three finish a lap at the same time?

20. A number is 40% of another. Their sum is 84. What are the two numbers?

21. A class has 28 students. 12 are boys. Write the ratio of boys to girls as a fraction, decimal, and percent.

**MULTI-STEP WORD PROBLEMS** (3 problems)

22. Three friends run laps: Ana every 4 min, Ben every 6 min, Cara every 9 min. They all start together. After how many minutes will all three finish a lap at the same time?

Show your work:

Answer: _____

23. A store sells juice boxes in packs of 6 and water bottles in packs of 4. You need equal numbers of each. Minimum packs to buy of each? Total drinks?

Show your work:

Juice packs: _____ Water packs: _____ Total drinks: _____

24. A class of 32 students: 75% passed a test. How many passed? Failed? If 3 more had passed, what percent would that be?

Show your work:

Passed: _____ Failed: _____ New percent: _____

**SPIRAL REVIEW** (5 problems)

↻ Spiral Review — Week 1

25. $3.14 \times 2.5 =$ _____

Answer: _____

↻ Spiral Review — Week 1

26. $2\frac{3}{4} \times 1\frac{1}{5} =$ _____

Answer: _____

↻ Spiral Review — Week 1

(27) 7.2 − 4.65 = _____

Answer: _____

↻ Spiral Review — Week 6th grade

(28) Find the volume: 8 cm × 6 cm × 5 cm.

Answer: _____

↻ Spiral Review — Week 6th grade

(29) A car travels 240 miles in 4 hours. Unit rate?

Answer: _____

★ CHALLENGE — OPTIONAL

A number is 40% of another number. Their sum is 84. What are the two numbers?

Answer: _____

**WEEKLY REFLECTION**

*What felt hardest this week? What felt easy or satisfying?*

Parent/guardian sign-off: _____ Date: _____

# Week 3 of 9

Negative numbers & integer operations

WEEK 3 OF 9

Name: _____ Date completed: _____

> **No calculators this summer.** Work by hand — that's where the learning happens. If you hit **60 minutes**, circle where you stopped and put the packet away. You're done for the week.

## Part 1 *~25–30 minutes · 15 problems*

### WARM-UP (5 problems)

1. Which is greater: −7 or −3? Explain.

   Answer: _____

2. What is |−9|? What is |4.5|?

   Answer: _____

3. Order from least to greatest: −3, 1, −6, 0, −1

   Answer: _____

4. −8 + (−5) = _____

   Answer: _____

5. 7 − (−4) = _____

   Answer: _____

### CORE PRACTICE (7 problems)

6. −9 × (−6) = _____

   Answer: _____

7. −48 ÷ 8 = _____

   Answer: _____

8. $-\frac{3}{4} + \frac{1}{2}$ = _____

   Answer: _____

9. $-1\frac{1}{2} - 2\frac{1}{4}$ = _____

   Answer: _____

10. −3 × (−2) × (−4) = _____

    Answer: _____

11. What is the distance between −4 and 3 on a number line?

Answer: _____

(12) Is the product of three negative numbers positive or negative? Explain with an example.

Answer: _____

**WORD PROBLEMS** (3 problems)

(13) The temperature was −6°C at midnight. It rose 3 degrees per hour for 5 hours. What was the temperature at 5 AM?

Show your work:

Answer: _____

(14) A scuba diver descends 4.5 meters per minute for 8 minutes. What is the diver's depth? Write as a negative number.

Show your work:

Answer: _____

(15) A business loses $3,400 per month for 6 months, then earns $8,750. What is the overall profit or loss?

Show your work:

Answer: _____

⏱ **At 60 minutes:** circle the last problem you completed and put the packet away. You're done for the week!

**Part 2** *~25–30 minutes · 14 problems + optional challenge*

**PUSHING FURTHER** (6 problems)

*These problems require more reasoning. Show all steps.*

(16) $(-3)^2 - (-2)^3 =$ _____

(17) $-\frac{2}{3} \times (-\frac{3}{4}) =$ _____

(18) $-5 \times (-3 + 8) - 2 =$ _____

(19) The product of two integers is −36 and their sum is −5. What are the two integers?

20 On a number line, point A is at −8 and point B is at 4. What is the coordinate of the point exactly halfway between them?

21 A stock changed: −$2.50, +$1.75, −$4.75, +$2.00, −$1.50 over 5 days. Total change? If the stock started at $48.50, what is the final price?

**MULTI-STEP WORD PROBLEMS** (3 problems)

22 A golf player scores −3, +2, −5, −1, +4, −2 over 6 holes. Total score? Average score per hole?

Show your work:

Total score: _____ Average per hole: _____

23 A football team: gains 8 yards, loses 5 yards, gains 12 yards, loses 7 yards. Total yardage change? Forward or backward overall?

Show your work:

Total change: _____ Forward or backward?: _____

24 A bank account starts at $150. Transactions: −$45, +$80, −$120, +$35. Final balance? At what point was the balance lowest?

Show your work:

Final balance: _____ Lowest balance after which transaction: _____

**SPIRAL REVIEW** (5 problems)

↻ Spiral Review — Week 2

25 Find the GCF of 24 and 60.

Answer: _____

↻ Spiral Review — Week 2

26 Find the LCM of 4, 6, and 9.

Answer: _____

↻ Spiral Review — Week 2

27 Write 0.625 as a fraction in simplest form.

Answer: _____

**↻ Spiral Review — Week 1**

(28) 3.14 × 2.5 = _____

Answer: _____

**↻ Spiral Review — Week 1**

(29) $2\frac{3}{4} \times 1\frac{1}{5}$ = _____

Answer: _____

**★ CHALLENGE — OPTIONAL**

The sum of two integers is −4. Their difference is 10. What are the two integers? Is there more than one answer?

Answer: _____

**WEEKLY REFLECTION**

*What felt hardest this week? What felt easy or satisfying?*

Parent/guardian sign-off: _____ Date: _____

# **Week 4** of 9

Order of operations with integers

WEEK 4 OF 9

Name: _____ Date completed: _____

> **No calculators this summer.** Work by hand — that's where the learning happens. If you hit **60 minutes**, circle where you stopped and put the packet away. You're done for the week.

## Part 1 *~25–30 minutes · 15 problems*

### WARM-UP (5 problems)

1. $3 + 4 \times 2 =$ _____
   Answer: _____
2. $(3 + 4) \times 2 =$ _____
   Answer: _____
3. $-3 + 4 \times (-2) =$ _____
   Answer: _____
4. $(5 - 8)^2 =$ _____
   Answer: _____
5. $-3^2 =$ _____ $(-3)^2 =$ _____ Explain the difference.
   Answer: _____

### CORE PRACTICE (7 problems)

6. $-2 \times (4 - 7) + 5 =$ _____
   Answer: _____
7. $3^2 - (-4) \times 2 =$ _____
   Answer: _____
8. $(8 - 3) \times (-2) + 6 =$ _____
   Answer: _____
9. $24 \div (-6) + (-2) \times 3 =$ _____
   Answer: _____
10. $[(-5) + 3] \times [4 - (-2)] =$ _____
    Answer: _____
11. $-4[3 - (2 - 8)] =$ _____

Answer: _____

12 $(-2)^3 \times (-1)&sup4; + 5^2 =$ _____

Answer: _____

**WORD PROBLEMS** (3 problems)

13 A store marks prices down $3 per item for a sale. A customer buys 5 items priced at $12 each. Write an expression using order of operations and find the total cost.

Show your work:

Expression: _____ Total cost: _____

14 The temperature starts at −2°F. It changes by $(3^2 - 7)$ degrees. What is the new temperature?

Show your work:

Answer: _____

15 A quiz: +4 for correct, −2 for wrong. Student gets 7 right and 3 wrong. Write and evaluate an expression for the score.

Show your work:

Expression: _____ Score: _____

⏱ **At 60 minutes:** circle the last problem you completed and put the packet away. You're done for the week!

**Part 2** *~25–30 minutes · 14 problems + optional challenge*

**PUSHING FURTHER** (6 problems)

*These problems require more reasoning. Show all steps.*

16 Insert parentheses to make this true: $3 + 4 \times 2 - 1 = 13$

17 $-|-8 + 3| + 2^2 \times (-1) =$ _____

18 $4 - 3[2 - (6 - 9)] + (-1)^2 =$ _____

19 Evaluate $5x^2 - 3x + 2$ for $x = -2$, $x = 0$, and $x = 3$. Which gives the smallest result?

(20) Is $|a - b| = |b - a|$ always true? Explain and give an example.

(21) Write an expression using at least 3 operations and a negative number that equals −10. Show it evaluates correctly.

**MULTI-STEP WORD PROBLEMS** (3 problems)

(22) A diver starts at −5 feet. Each minute she descends 3 feet, and every 4 minutes she rises 2 feet. Write and evaluate an expression for her depth after 8 minutes.

Show your work:

Expression: _____ Depth after 8 min: _____

(23) Evaluate: $2(x - 3)^2 - 4x$ when $x = -1$. Show every step.

Show your work:

Answer: _____

(24) The formula $F = \frac{9}{5}C + 32$. Find F when C = −20. Find C when F = −4.

Show your work:

F when C=−20: _____ C when F=−4: _____

**SPIRAL REVIEW** (5 problems)

↻ **Spiral Review — Week 3**

(25) $-9 \times (-6) =$ _____

Answer: _____

↻ **Spiral Review — Week 3**

(26) $-\frac{3}{4} + \frac{1}{2} =$ _____

Answer: _____

↻ **Spiral Review — Week 3**

(27) What is the distance between −4 and 3 on a number line?

Answer: _____

↻ **Spiral Review — Week 2**

28 Write 0.625 as a fraction in simplest form.

Answer: _____

**↻ Spiral Review — Week 1**

29 $3\frac{1}{2} - 1\frac{2}{3} =$ _____

Answer: _____

**★ CHALLENGE — OPTIONAL**

Insert +, −, ×, ÷, and/or parentheses between the digits 2, 3, 4, 5 (in that order) to make an expression equal to −1. How many different ways can you find?

Answer: _____

**WEEKLY REFLECTION**

*What felt hardest this week? What felt easy or satisfying?*

Parent/guardian sign-off: _____ Date: _____

# **Week 5** of 9

Ratios, proportions & percents

WEEK 5 OF 9

Name: _____ Date completed: _____

> **No calculators this summer.** Work by hand — that's where the learning happens. If you hit **60 minutes**, circle where you stopped and put the packet away. You're done for the week.

## Part 1 *~25–30 minutes · 15 problems*

### WARM-UP (5 problems)

1. Write the ratio 15:25 in simplest form.

   Answer: _____

2. Are 3:4 and 9:12 proportional? Show how you know.

   Answer: _____

3. What is 35% of 80?

   Answer: _____

4. A $40 item is 20% off. What is the discount amount?

   Answer: _____

5. A restaurant bill is $48. You leave a 20% tip. How much is the tip?

   Answer: _____

### CORE PRACTICE (7 problems)

6. A recipe uses 2.5 cups of sugar for 5 cups of flour. How much sugar for 8 cups of flour?

   Answer: _____

7. A $120 pair of shoes is on sale for $90. What percent discount is that?

   Answer: _____

8. Sales tax is 8.5%. Total cost of a $60 item?

   Answer: _____

9. A map scale is 2 cm = 50 km. Two cities are 7.5 cm apart. How far are they?

   Answer: _____

10. You invest $500 at 4% simple interest per year. How much interest after 3 years? What is the total value?

    Answer: _____

11. A $75 item is discounted 20%, then the discounted price is discounted another 10%. What is the final price? Is that the same as 30% off the original?

Answer: _____

12. A shirt costs $32 after a 20% discount. What was the original price?

Answer: _____

**WORD PROBLEMS** (3 problems)

13. A car uses 4 gallons per 100 miles. Gas costs $3.85/gallon. How much does a 375-mile trip cost?

Show your work:

Answer: _____

14. A family's restaurant bill is $95.40. They leave a 20% tip. Total? Split equally among 4 people — how much per person?

Show your work:

Tip: _____ Total: _____ Per person: _____

15. A store buys a jacket for $65 and sells it for $97.50. Percent markup? If it goes on sale for 20% off, what is the sale price?

Show your work:

Percent markup: _____ Sale price: _____

⏱ **At 60 minutes:** circle the last problem you completed and put the packet away. You're done for the week!

## Part 2 *~25–30 minutes · 14 problems + optional challenge*

**PUSHING FURTHER** (6 problems)

*These problems require more reasoning. Show all steps.*

16. Two workers earn in a 5:8 ratio. Together they earn $3,900. How much does each earn?

17. A price increased from $45 to $54. What is the percent increase? If it then decreased back to $45, what was the percent decrease from $54?

18. Simple interest formula: I = Prt. If P = $1,200, r = 5%, t = 2.5 years, find I and the total amount.

19. A 16-oz juice costs $2.56 and a 24-oz juice costs $3.60. Which is a better deal? By what percent?

20. Two cars leave the same point. Car A goes 55 mph east. Car B goes 65 mph west. How far apart after 4 hours? After how many hours will they be 480 miles apart?

21. A store has two sale options for a $200 item: (A) 30% off, or (B) 25% off then another 20% off. Which is the better deal?

**MULTI-STEP WORD PROBLEMS** (3 problems)

22. Three friends go to lunch. Bill: $72.60. Tip: 20%. Split equally. How much does each person pay?

Show your work:

Answer: _____

23. A phone originally costs $720. Discounted 15%, then 8% sales tax on the sale price. Final cost? How much saved compared to original?

Show your work:

Final cost: _____ Savings: _____

24. A store buys jeans for $28 and marks them up 75%. During a sale they are 20% off the marked price. Sale price? Store's profit or loss per pair?

Show your work:

Sale price: _____ Profit or loss: _____

**SPIRAL REVIEW** (5 problems)

↻ **Spiral Review — Week 3**

25. $(-3)^2 - (-2)^3 =$ _____

Answer: _____

↻ **Spiral Review — Week 4**

26. $-2 \times (4 - 7) + 5 =$ _____

Answer: _____

↻ Spiral Review — Week 2

27 Find the GCF of 24 and 60.

Answer: _____

↻ Spiral Review — Week 1

28 $2\frac{3}{4} \times 1\frac{1}{5} =$ _____

Answer: _____

↻ Spiral Review — Week 1

29 $7.2 - 4.65 =$ _____

Answer: _____

★ CHALLENGE — OPTIONAL

A store has two sale options on a $200 item: (A) 40% off, or (B) 25% off then another 20% off. Which is the better deal? Show all work and explain why they aren't the same.

Answer: _____

**WEEKLY REFLECTION**

*What felt hardest this week? What felt easy or satisfying?*

Parent/guardian sign-off: _____ Date: _____

# Week 6 of 9

Variables, expressions & one-step equations

WEEK 6 OF 9

Name: _____ Date completed: _____

> **No calculators this summer.** Work by hand — that's where the learning happens. If you hit **60 minutes**, circle where you stopped and put the packet away. You're done for the week.

## Part 1 *~25–30 minutes · 15 problems*

**WARM-UP** (5 problems)

1. Evaluate $4x + 3$ when $x = 5$.
   Answer: _____
2. Evaluate $3x - 2y$ when $x = 4$ and $y = -3$.
   Answer: _____
3. Simplify: $5x + 3x =$ _____
   Answer: _____
4. Simplify: $3(x + 4) =$ _____ (distributive property)
   Answer: _____
5. Solve: $x + 8 = 15$. $x =$ _____
   Answer: _____

**CORE PRACTICE** (7 problems)

6. Simplify: $4a + 2b - a + 5b =$ _____
   Answer: _____
7. Simplify: $2(3m - 4) + m =$ _____
   Answer: _____
8. Solve: $-5x = 35$. $x =$ _____
   Answer: _____
9. Solve: $\frac{n}{4} = -8$. $n =$ _____
   Answer: _____
10. Solve: $2.5x = 15$. $x =$ _____
    Answer: _____
11. Write an equation for: 'A number increased by 12 is 31.' Solve it.

Answer: _____

(12) The equation $kx = 24$ has the solution $x = -6$. What is k?

Answer: _____

**WORD PROBLEMS** (3 problems)

(13) A plumber charges $65 for a house call plus $45 per hour. Write an expression for h hours. Find the charge for 2, 3.5, and 6 hours.

Show your work:

Expression: _____ 2 hours: _____ 3.5 hours: _____ 6 hours: _____

(14) Sofia has some stickers. After giving 14 to a friend she has 23 left. Write and solve an equation to find how many she started with.

Show your work:

Equation: _____ Answer: _____

(15) The temperature dropped to −4°F overnight. This was a decrease of 17 degrees from the afternoon. Write and solve an equation to find the afternoon temperature.

Show your work:

Equation: _____ Answer: _____

⏱ **At 60 minutes:** circle the last problem you completed and put the packet away. You're done for the week!

**Part 2** *~25–30 minutes · 14 problems + optional challenge*

**PUSHING FURTHER** (6 problems)

*These problems require more reasoning. Show all steps.*

(16) Evaluate $(2x)^2 - 3x + 1$ when $x = -2$.

(17) Are $3(x - 4)$ and $3x - 12$ equivalent? Show by evaluating both when $x = 2$ and $x = -5$.

(18) Simplify: $4(2x - 3) - 2(x + 5) =$ _____

(19) Solve: $-\frac{x}{5} = -9$. $x =$ _____

(20) A submarine is at an unknown depth. It rises 85 feet and is now at −155 feet. Write and solve an equation to find the starting depth.

(21) Write two different expressions equivalent to 6n − 18.

**MULTI-STEP WORD PROBLEMS** (3 problems)

(22) A phone plan costs $30/month plus $0.08/text. Write an expression. Cost for 120 texts? For 500 texts? How many texts for $50?

Show your work:

Expression: _____ 120 texts: _____ 500 texts: _____ Texts for $50: _____

(23) Two friends saving: Ana has $120 and saves $15/week. Ben has $80 and saves $20/week. Write expressions for each. After how many weeks will Ben have more than Ana?

Show your work:

Ana's expression: _____ Ben's expression: _____ Weeks until Ben has more: _____

(24) A store sells scarves at the same price. Mia buys 6 and spends $52.50. Write and solve an equation to find the price per scarf. How much would 10 scarves cost?

Show your work:

Equation: _____ Price per scarf: _____ 10 scarves: _____

**SPIRAL REVIEW** (5 problems)

↻ Spiral Review — Week 5

(25) A $120 pair of shoes is on sale for $90. What percent discount?

Answer: _____

↻ Spiral Review — Week 5

(26) A family's bill is $95.40. Tip 20%. Total? Per person for 4 people?

Answer: _____

↻ Spiral Review — Week 4

(27) $-2 \times (4 - 7) + 5 =$ _____

Answer: _____

**↻ Spiral Review — Week 3**

28 $-9 \times (-6) =$ _____

Answer: _____

**↻ Spiral Review — Week 2**

29 Find the LCM of 4, 6, and 9.

Answer: _____

**★ CHALLENGE — OPTIONAL**

The sum of three consecutive odd integers is 81. Write an expression using n for the smallest number, then solve. What are the three integers?

Answer: _____

**WEEKLY REFLECTION**

*What felt hardest this week? What felt easy or satisfying?*

Parent/guardian sign-off: _____ Date: _____

# Week 7 of 9

Basic geometry — area, perimeter & circumference

WEEK 7 OF 9

Name: _____ Date completed: _____

> **No calculators this summer.** Work by hand — that's where the learning happens. If you hit **60 minutes**, circle where you stopped and put the packet away. You're done for the week.

## Part 1 *~25–30 minutes · 15 problems*

### WARM-UP (5 problems)

1. Find the area of a rectangle: length 12 cm, width 7.5 cm.

   Answer: _____

2. Find the area of a triangle: base 10 in, height 6 in.

   Answer: _____

3. A circle has radius 7 cm. Find its circumference. *($\pi \approx 3.14$)*

   Answer: _____

4. A square has perimeter 52 ft. What is the side length and area?

   Answer: _____

5. Find the perimeter of a triangle: sides 8.5 cm, 9.2 cm, 11.4 cm.

   Answer: _____

### CORE PRACTICE (7 problems)

6. A circle has diameter 14 m. Find the circumference and area. *($\pi \approx 3.14$)*

   Answer: _____

7. A rectangle has area 91 sq cm and length 13 cm. What is the width and perimeter?

   Answer: _____

8. A rectangle has perimeter 54 m. Its length is 3 times its width. Find the dimensions and area.

   Answer: _____

9. Find the area of a right triangle with legs 9 cm and 12 cm.

   Answer: _____

10. A circle has area 78.5 sq in. What is the radius and diameter? *($\pi \approx 3.14$)*

    Answer: _____

11. A semicircle has diameter 10 cm. Find its perimeter (straight edge + curved edge).

Answer: _____

12. A circle and a square have the same perimeter/circumference of 40 cm. Which has the greater area?

Answer: _____

**WORD PROBLEMS** (3 problems)

13. A circular garden has a diameter of 8 meters. Find the area. Fencing costs $12 per meter. How much to fence the garden?

Show your work:

Area: _____ Fencing cost: _____

14. A rectangular floor is 18 ft by 14 ft. Tile costs $3.50 per sq ft. Baseboards cost $2.25 per linear foot. Total cost?

Show your work:

Tile cost: _____ Baseboard cost: _____ Total: _____

15. A triangular park has base 150 feet and height 90 feet. How many square feet is the park? If sod costs $0.06 per sq ft, what is the total sod cost?

Show your work:

Area: _____ Sod cost: _____

⏱ **At 60 minutes:** circle the last problem you completed and put the packet away. You're done for the week!

## Part 2 *~25–30 minutes · 14 problems + optional challenge*

**PUSHING FURTHER** (6 problems)

*These problems require more reasoning. Show all steps.*

16. A rectangle has length (2x + 5) cm and width x cm. Its area is 75 sq cm. Find x. *(Hint: try whole-number values.)*

17. An L-shaped figure: one rectangle 12×4 and one 6×3. Find the total area and perimeter.

18. A circle is inscribed in a square with side 10 cm. What is the area between the square and the circle?

19. A semicircle sits on top of a rectangle 8 cm wide and 5 cm tall. Find the total area and perimeter.

20. A circular track has diameter 100 m. A runner runs 4 laps. How far does she run?

21. A garden has a rectangular section 20 ft × 14 ft and a semicircular section on one short end (diameter 14 ft). Find the total area and perimeter.

**MULTI-STEP WORD PROBLEMS** (3 problems)

22. A circular pizza has diameter 14 inches, cut into 8 equal slices. Area of one slice? Crust length (arc) of one slice?

Show your work:

Area of one slice: _____ Crust length: _____

23. A rectangular pool is 25 m × 12 m. A 1.5 m wide path surrounds it. What is the area of just the path?

Show your work:

Answer: _____

24. A rectangle has the same area as a circle with radius 6 cm. The rectangle's length is twice its width. Find the rectangle's dimensions. *($\pi \approx 3.14$)*

Show your work:

Answer: _____

**SPIRAL REVIEW** (5 problems)

↻ **Spiral Review — Week 6**

25. Solve: $-5x = 35$.

Answer: _____

↻ **Spiral Review — Week 6**

26. Simplify: $2(3m - 4) + m$.

Answer: _____

↻ **Spiral Review — Week 5**

27 A family's bill is $95.40. 20% tip. Total? Per person for 4?

Answer: _____

**↻ Spiral Review — Week 4**

28 $-2 \times (4 - 7) + 5 =$ _____

Answer: _____

**↻ Spiral Review — Week 3**

29 $-9 \times (-6) =$ _____

Answer: _____

**★ CHALLENGE — OPTIONAL**

A store reduces a price by 25% one week, then increases the reduced price by 25% the next week. Is the final price the same as the original? Show with a specific example and explain why or why not.

Answer: _____

**WEEKLY REFLECTION**

*What felt hardest this week? What felt easy or satisfying?*

Parent/guardian sign-off: _____ Date: _____

# Week 8 of 9

Mixed review — number sense

WEEK 8 OF 9

Name: _____ Date completed: _____

> **No calculators this summer.** Work by hand — that's where the learning happens. If you hit **60 minutes**, circle where you stopped and put the packet away. You're done for the week.

## Part 1 *~25–30 minutes · 15 problems*

**WARM-UP** (5 problems)

1. $2\frac{3}{4} \times 1\frac{1}{5} =$ _____
   Answer: _____
2. $-8 + (-5) \times 2 =$ _____
   Answer: _____
3. Write 0.875 as a fraction in simplest form.
   Answer: _____
4. What is 30% of 150?
   Answer: _____
5. Evaluate $3x^2 - 2x$ when $x = -3$.
   Answer: _____

**CORE PRACTICE** (7 problems)

6. Solve: $-6x = 42$. $x =$ _____
   Answer: _____
7. Simplify: $4(2x - 3) + 5x =$ _____
   Answer: _____
8. Order from least to greatest: $-3.5$, $-\frac{7}{2}$, $-3.49$, $-4$
   Answer: _____
9. A map scale is 1 inch = 50 miles. Cities are 4.5 inches apart. How far apart are they?
   Answer: _____
10. A shirt costs $44 after a 20% discount. What was the original price?
    Answer: _____
11. $(-2)^3 \times (-1)&sup4; + 4^2 \div 2 =$ _____

Answer: _____

12 Find the area of a triangle: base 14 m, height 9 m.

Answer: _____

**WORD PROBLEMS** (3 problems)

13 A school store starts with 500 pencils. Each week it sells 48 and receives 75 new ones. Write an expression for pencils after w weeks. How many after 6 weeks?

Show your work:

Expression: _____ After 6 weeks: _____

14 Ana and Ben are saving. Ana: $90, saves $12/week. Ben: $30, saves $18/week. When do they have the same amount? How much will each have?

Show your work:

Equation: _____ Weeks: _____ Amount each: _____

15 A store bought 40 items for $12 each and sold them for $18.60 each. Total profit? Percent markup?

Show your work:

Total profit: _____ Percent markup: _____

⏱ **At 60 minutes:** circle the last problem you completed and put the packet away. You're done for the week!

**Part 2** *~25–30 minutes · 14 problems + optional challenge*

**PUSHING FURTHER** (6 problems)

*These problems require more reasoning. Show all steps.*

16 Solve: $\frac{x}{-4} = -9$. $x =$ _____

17 Evaluate: $-3[2 - (-4)] + 5^2 \div (-5)$

18 The ratio of red to blue to green marbles is 4:3:5. There are 108 total. How many of each?

19 A number is 15 more than −3 times another. Their sum is 13. Find both numbers.

(20) Write and simplify: 'triple the sum of x and −4, minus twice x.'

(21) A price increased from $45 to $54. What is the percent increase? If it then decreased back to $45, what was the percent decrease from $54?

**MULTI-STEP WORD PROBLEMS** (3 problems)

(22) A runner's pace (min/mile) for 7 races: 8.2, 7.9, 8.4, 8.1, 7.8, 8.3, 7.9. Find mean, median, mode, range. Is there an outlier?

Show your work:

Mean: _____ Median: _____ Mode: _____ Range: _____

(23) A circular fountain has a diameter of 6 m, surrounded by a 1 m wide path. What is the area of just the path?

Show your work:

Answer: _____

(24) A stock changed: −$3.25, +$1.50, −$4.75, +$2.00, −$1.50 over 5 days. Total change? If it started at $48.50, what is the final price?

Show your work:

Total change: _____ Final price: _____

**SPIRAL REVIEW** (5 problems)

↻ **Spiral Review — Week 6**

(25) Solve: −5x = 35.

Answer: _____

↻ **Spiral Review — Week 7**

(26) Find the circumference of a circle with diameter 14 m. ($\pi \approx 3.14$)

Answer: _____

↻ **Spiral Review — Week 6**

(27) 3(x + 4) = _____ (expand)

Answer: _____

**↻ Spiral Review — Week 4**

(28) $-3^2$ vs $(-3)^2$ — evaluate both.

Answer: _____

**↻ Spiral Review — Week 2**

(29) Find the LCM of 4, 6, and 9.

Answer: _____

**★ CHALLENGE — OPTIONAL**

A store reduces a price by 25% one week, then increases the reduced price by 25% the next week. Is the final price the same as the original? Show with a specific example and explain why or why not.

Answer: _____

**WEEKLY REFLECTION**

*What felt hardest this week? What felt easy or satisfying?*

Parent/guardian sign-off: _____ Date: _____

# Week 9 of 9

Mixed review — algebra & geometry

WEEK 9 OF 9

Name: _____ Date completed: _____

> **No calculators this summer.** Work by hand — that's where the learning happens. If you hit **60 minutes**, circle where you stopped and put the packet away. You're done for the week.

## Part 1 *~25–30 minutes · 15 problems*

### WARM-UP (5 problems)

1. Solve: $3(x + 2) = 18$. $x =$ _____

   Answer: _____

2. Find the circumference of a circle with radius 9 cm. *($\pi \approx 3.14$)*

   Answer: _____

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

   Answer: _____

4. Order from least to greatest: $-3.5$, $-\frac{7}{2}$, $-3.49$, $-4$

   Answer: _____

5. What is 30% of 150?

   Answer: _____

### CORE PRACTICE (7 problems)

6. Solve: $-6x = 42$. $x =$ _____

   Answer: _____

7. Find the area of a triangle: base 14 m, height 9 m.

   Answer: _____

8. Two friends: Ana $90 saving $12/week, Ben $30 saving $18/week. When do they have the same amount?

   Answer: _____

9. Evaluate $3x^2 - 2x$ when $x = -3$.

   Answer: _____

10. A rectangle has perimeter 62 cm and its length is 5 more than twice its width. Find the area.

    Answer: _____

(11) Solve: $\frac{x}{-4} = -9$. $x =$ _____

Answer: _____

(12) Find the area of a circle with diameter 14 m. *($\pi \approx 3.14$)*

Answer: _____

**WORD PROBLEMS** (3 problems)

(13) A school carnival: adult tickets $5, student tickets $3. 120 tickets sold, $456 collected. How many of each?

Show your work:

Adult tickets: _____ Student tickets: _____

(14) A circular pizza has diameter 14 inches cut into 8 equal slices. Area of one slice? Crust length of one slice?

Show your work:

Area of one slice: _____ Crust length: _____

(15) A runner's times (min/mile) for 7 races: 8.2, 7.9, 8.4, 8.1, 7.8, 8.3, 7.9. Find mean, median, mode, and range. Is her mean under 8.1?

Show your work:

Mean: _____ Median: _____ Mode: _____ Range: _____ Under 8.1?: _____

⏱ **At 60 minutes:** circle the last problem you completed and put the packet away. You're done for the week!

## Part 2 *~25–30 minutes · 14 problems + optional challenge*

**PUSHING FURTHER** (6 problems)

*These problems require more reasoning. Show all steps.*

(16) A number is 15 more than −3 times another. Their sum is 13. Find both numbers.

(17) A rectangular pool is 25 m × 12 m. A 1.5 m wide path surrounds it. What is the area of just the path?

(18) Evaluate: $-3[2 - (-4)] + 5^2 \div (-5)$

19. Write and simplify: 'triple the sum of x and −4, minus twice x.' Evaluate when x = 3.

20. A bike path is 24 miles. A cyclist at 12 mph and a jogger at 6 mph start from opposite ends at the same time. After how many hours do they meet?

21. The ratio of red to blue to green marbles is 4:3:5. There are 108 total. How many of each?

**MULTI-STEP WORD PROBLEMS** (3 problems)

22. A garden has a rectangular section 20 ft × 14 ft and a semicircular section on one short end (diameter 14 ft). Find the total area and perimeter.

Show your work:

Total area: _____ Total perimeter: _____

23. A stock changed: −$3.25, +$1.50, −$4.75, +$2.00, −$1.50. Total change? If started at $48.50, final price?

Show your work:

Total change: _____ Final price: _____

24. A swimming pool is being filled. Pipe A fills it in 6 hours, Pipe B in 4 hours. Together, how long does it take? *(Hint: what fraction does each pipe fill per hour?)*

Show your work:

Answer: _____

**SPIRAL REVIEW** (5 problems)

**↻ Spiral Review — Week previous**

25. Solve: 3(x + 2) = 18.

Answer: _____

**↻ Spiral Review — Week 7**

26. Find the circumference of a circle with diameter 14 m.

Answer: _____

**↻ Spiral Review — Week 5**

27. A family's bill is $95.40. 20% tip. Total?

Answer: _____

**↻ Spiral Review — Week 4**

(28) $-2 \times (4 - 7) + 5 =$ _____

Answer: _____

**↻ Spiral Review — Week 2**

(29) Find the GCF of 24 and 60.

Answer: _____

**★ CHALLENGE — OPTIONAL**

A swimming pool is being filled. Pipe A fills it in 6 hours, Pipe B fills it in 4 hours. If both pipes are open together, how long does it take to fill the pool? *(Hint: think about what fraction of the pool each pipe fills per hour.)*

Answer: _____

**WEEKLY REFLECTION**

*What felt hardest this week? What felt easy or satisfying?*

Parent/guardian sign-off: _____ Date: _____