Rising 5th Grade Summer Assignments

Summer 2026

Dear Rising 5th Graders and Families,

Welcome to summer! We are so proud of all the hard work you accomplished this year, and we are excited to continue growing together next year at OLL.

Summer is a wonderful time to relax, explore, and discover new stories through reading. Reading regularly over the summer helps keep your mind active, strengthens your vocabulary, and prepares you for a successful start to 5th grade. **This summer, all rising 5th grade students are required to read: Out of My Mind by Sharon Draper. In addition, students are expected to read two other books, one of their choosing and one from our attached reading list.**

Attached to this assignment is also our summer math packet. This packet reviews necessary concepts needed for the beginning of 5th grade. Both the packet and ELA assignments are due on the first day of school.

Ms. Whitcomb

Writing Assignment

After reading *Out of My Mind*, complete the assignment below. Your final response should be **typed or neatly handwritten** and should include evidence and examples from the book.
Melody faces many challenges throughout the novel, yet she continues to persevere and show courage.

Write a letter to either: Melody or the author (Sharon M. Draper).

Your letter should be 3 paragraphs long (5 sentences per paragraph) and can be handwritten or typed. Please make sure to:

- Include specific examples from the text
- Use complete sentences and proper grammar
- Organize your ideas clearly

See the example letter below:

Dear R. J. Palacio,

I really enjoyed reading Wonder this summer. Auggie was very brave because he went to a new school even though he was nervous. I felt sad when some students were mean to him because of the way he looked. One part I liked was when Summer and Jack became his friends and treated him kindly. Your book taught me that everyone should be treated with respect and kindness.

Another reason I liked the book was because Auggie never gave up. Even when people hurt his feelings, he kept trying his best at school. I liked when Jack stood up for Auggie and showed he was a true friend. My favorite part was when many students became kinder to Auggie by the end of the story. The book showed me how important friendship and courage are.

Thank you for writing such a meaningful book. Your story taught me not to judge people by their appearance. It also helped me understand how words and actions can affect others. I think many students can learn important lessons from this book. I would like to read more books written by you in the future.

Sincerely,

Ashlinne Whitcomb

Summer Reading Expectations

Alongside reading *Out of My Mind*, students should aim to read for at least:

- **20–30 minutes each day**
- A variety of genres and authors
- Both independently and with family when possible

Please read two other books this summer, not including *Out of My Mind.* One book you must choose from the list and the other may be of your choice. We encourage students to visit their local library regularly and keep a reading journal of books completed during the summer.

Recommended Reading List for Rising 5th Graders

Realistic Fiction

- Wonder by R. J. Palacio
- Fish in a Tree by Lynda Mullaly Hunt
- Restart by Gordon Korman
- Because of Mr. Terupt by Rob Buyea
- The One and Only Ivan by Katherine Applegate

Historical Fiction

- Number the Stars by Lois Lowry
- Esperanza Rising by Pam Muñoz Ryan
- Refugee by Alan Gratz
- Stella by Starlight by Sharon M Draper

Fantasy & Adventure

- Percy Jackson and the Olympians: The Lightning Thief by Rick Riordan
- The Wild Robot by Peter Brown
- The Girl Who Drank the Moon by Kelly Barnhill
- A Wrinkle in Time by Madeleine L'Engle

Mystery & Suspense

- Escape from Mr. Lemoncello's Library by Chris Grabenstein
- Greenglass House by Kate Milford

Nonfiction

- Who Was Harriet Tubman? by Yona Zeldis McDonough
- Hidden Figures Young Readers' Edition by Margot Lee Shetterly
- Brown Girl Dreaming by Jacqueline Woodson

SUMMER LEARNING PACKET

INCOMING 5TH GRADE

Summer Math

9 WEEKS · NO CALCULATOR · 45–55 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

22 problems per week. Part 1 is 12 problems (~20–25 min). Part 2 is 10 problems + an optional challenge (~20–25 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

Place value, rounding & large number operations

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 *~20–25 minutes · 12 problems*

WARM-UP (5 problems)

1. What is the value of the digit 6 in 46,382?

   Answer: _____

2. Round 47,638 to the nearest thousand.

   Answer: _____

3. Order from least to greatest: 12,405 12,045 12,450

   Answer: _____ < _____ < _____

   Answer: _____

4. 23,405 + 14,682 = _____

   Answer: _____

5. 50,000 − 27,364 = _____

   Answer: _____

CORE PRACTICE (5 problems)

6. 348,217 + 124,865 = _____

   Answer: _____

7. 500,000 − 183,742 = _____

   Answer: _____

8. Round 1,748,205 to the nearest hundred-thousand.

   Answer: _____

9. Write 4,060,309 in expanded form.

   Answer: _____

10. A number rounded to the nearest ten-thousand is 350,000. Write two possible original numbers.

    Answer: _____

WORD PROBLEMS (2 problems)

11 A city has a population of 284,756. A nearby city has 247,965. Which has more people? How much more?

Show your work:

Which city: _____ How much more: _____

12 A store had 1,342,800 items. They sold 487,463 items and received 95,000 new items. How many items do they have now?

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 *~20–25 minutes · 10 problems + optional challenge*

PUSHING FURTHER (4 problems)

These problems require more reasoning. Show all steps.

13 Write a 7-digit number that has a 4 in the millions place, a 0 in the hundred-thousands place, and rounds to 4,500,000 when rounded to the nearest hundred-thousand.

14 The sum of two numbers is 1,000,000. One number is 437,892. What is the other? What is their difference?

15 Three towns have populations of 84,362, 91,845, and 76,508. What is the combined population? Round to the nearest ten-thousand.

16 Put in order from greatest to least: 2,045,891 2,405,198 2,054,891 2,450,891

MULTI-STEP WORD PROBLEMS (2 problems)

17 Mt. Everest is 29,032 feet tall. Mt. Kilimanjaro is 19,341 feet tall. Round each to the nearest thousand. Which is taller, and by approximately how much (using rounded numbers)?

Show your work:

Everest rounded: _____ Kilimanjaro rounded: _____ Approx. difference: _____

18 A library has 148,350 books. It receives 12,000 more and 3,500 are damaged and removed. How many books are there now? Round your answer to the nearest thousand.

Show your work:

Exact answer: _____ Rounded: _____

SPIRAL REVIEW (4 problems)

↻ **Spiral Review — Week 4th grade**

19 What is 7 × 8? What is 63 ÷ 9?

Answer: _____

↻ **Spiral Review — Week 4th grade**

20 A rectangle is 12 cm long and 5 cm wide. What is the perimeter?

Answer: _____

↻ **Spiral Review — Week 4th grade**

21 Write $\frac{3}{4}$ as a decimal.

Answer: _____

↻ **Spiral Review — Week 4th grade**

22 What is the area of a rectangle 6 m long and 4 m wide?

Answer: _____

★ CHALLENGE — OPTIONAL

Using the digits 1, 2, 3, 4, 5, 6, and 7 (each used exactly once), write the largest possible 7-digit number and the smallest possible 7-digit number. What is the difference between them?

Largest: _____ Smallest: _____ Difference: _____

WEEKLY REFLECTION

What felt hardest this week? What felt easy or fun?

Parent/guardian sign-off: _____ Date: _____

Week 2 of 9

Multiplication & division

WEEK 2 OF 9

Name: _____ Date completed: _____

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Part 1 *~20–25 minutes · 12 problems*

WARM-UP (5 problems)

1. 8 × 7 = _____ 9 × 6 = _____ 12 × 8 = _____

   Answer: _____

2. 72 ÷ 8 = _____ 63 ÷ 9 = _____ 96 ÷ 12 = _____

   Answer: _____

3. 56 × 4 = _____

   Answer: _____

4. 325 ÷ 5 = _____

   Answer: _____

5. Estimate: 312 × 48 (round each to the nearest ten). Estimate: _____

   Answer: _____

CORE PRACTICE (5 problems)

6. 487 × 8 = _____

   Answer: _____

7. 56 × 23 = _____

   Answer: _____

8. 1,248 ÷ 6 = _____

   Answer: _____

9. 3,745 ÷ 5 = _____ remainder _____

   Answer: _____

10. A number multiplied by 6 gives 486. What is the number? What is that number multiplied by 9?

    Answer: _____

WORD PROBLEMS (2 problems)

11 A school orders 24 boxes of crayons. Each box has 48 crayons. How many crayons total? If each classroom gets 96 crayons, how many classrooms can be supplied?

Show your work:

Total crayons: _____ Classrooms supplied: _____

12 A baker makes 1,440 cookies packed in boxes of 24. How many full boxes? She sells each box for $8. How much money does she make?

Show your work:

Boxes: _____ Money earned: _____

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

Part 2 *~20–25 minutes · 10 problems + optional challenge*

PUSHING FURTHER (4 problems)

These problems require more reasoning. Show all steps.

13 Use the distributive property: $7 \times 63 = 7 \times (60 + 3) =$ _____

14 A number divided by 8 gives quotient 347 remainder 3. What is the original number?

15 Which is greater: $4{,}824 \div 8$ or $3{,}906 \div 6$? By how much?

16 A cinema has 38 rows of 24 seats. On Friday 75% of seats were filled. How many people attended? How many seats were empty?

MULTI-STEP WORD PROBLEMS (2 problems)

17 Tiles are 8 inches wide and 12 inches long. A floor is 96 inches wide and 144 inches long. How many tiles are needed to cover the floor?

Show your work:

Answer: _____

18 A farmer plants 36 rows of corn with 75 plants each and 28 rows of beans with 60 plants each. How many plants total? How many more corn plants than bean plants?

Show your work:

Total plants: _____ Difference: _____

SPIRAL REVIEW (4 problems)

↻ Spiral Review — Week 1

19 348,217 + 124,865 = _____

Answer: _____

↻ Spiral Review — Week 1

20 500,000 − 183,742 = _____

Answer: _____

↻ Spiral Review — Week 1

21 Round 1,748,205 to the nearest hundred-thousand.

Answer: _____

↻ Spiral Review — Week 4th grade

22 What is 9 × 7? What is 56 ÷ 8?

Answer: _____

★ CHALLENGE — OPTIONAL

A magic square has the same sum in every row, column, and diagonal. Fill in the missing numbers so this 3×3 magic square works. The numbers 1–9 are each used once, and the magic sum is 15.

[2 | __ | 6]
[__ | 5 | __]
[4 | __ | __]

WEEKLY REFLECTION

What felt hardest this week? What felt easy or fun?

Parent/guardian sign-off: _____ Date: _____

Week 3 of 9

Fractions — comparing, equivalent, adding & subtracting

WEEK 3 OF 9

Name: _____ Date completed: _____

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Part 1 *~20–25 minutes · 12 problems*

WARM-UP (5 problems)

1. Simplify $\frac{8}{12}$ to lowest terms.

   Answer: _____

2. Which is greater: $\frac{3}{4}$ or $\frac{5}{8}$? Show how you know.

   Answer: _____

3. Convert $2\frac{3}{4}$ to an improper fraction.

   Answer: _____

4. $\frac{3}{8} + \frac{7}{8} =$ _____

   Answer: _____

5. $2\frac{3}{8} + 1\frac{7}{8} =$ _____

   Answer: _____

CORE PRACTICE (5 problems)

6. $5\frac{1}{4} - 2\frac{3}{4} =$ _____

   Answer: _____

7. Order from least to greatest: $\frac{2}{3}$ $\frac{3}{4}$ $\frac{5}{8}$ $\frac{7}{12}$

   Answer: _____

8. Are $\frac{4}{6}$ and $\frac{10}{15}$ equivalent? Show your work.

   Answer: _____

9. $\frac{5}{8} + \frac{7}{8} - \frac{3}{8} =$ _____

   Answer: _____

10. What number added to $2\frac{3}{5}$ gives a sum of $4\frac{1}{5}$?

    Answer: _____

WORD PROBLEMS (2 problems)

11 In a class of 28 students, $\frac{3}{4}$ completed their homework. How many students completed it? How many did not?

Show your work:

Completed: _____ Did not complete: _____

12 A board is $4\frac{1}{6}$ feet long. You cut off $1\frac{4}{6}$ feet. How much is left? How much more do you need to cut to get to exactly 2 feet?

Show your work:

Left: _____ More to cut: _____

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

Part 2 *~20–25 minutes · 10 problems + optional challenge*

PUSHING FURTHER (4 problems)

These problems require more reasoning. Show all steps.

13 Simplify $\frac{24}{36}$ to lowest terms. Show two different ways.

14 Three pieces of ribbon: $\frac{3}{10}$ m, $\frac{7}{10}$ m, and $\frac{9}{10}$ m. Total length? If you need 2 m, how much more do you need?

15 Is $3\frac{5}{8} + 2\frac{7}{8}$ greater than or less than 7? How do you know without fully solving?

16 A fraction puzzle: I start with $\frac{3}{8}$. I add a fraction, then subtract $\frac{1}{8}$, and my answer is $1\frac{1}{8}$. What fraction did I add?

MULTI-STEP WORD PROBLEMS (2 problems)

17 Three friends run different distances. Ana: $\frac{3}{4}$ mile, Ben: $\frac{5}{8}$ mile, Cara: $\frac{2}{3}$ mile. Order from least to greatest. How far did all three run combined?

Show your work:

Order: _____ Total distance: _____

18. A container holds 5 liters. It has $2\frac{3}{8}$ liters of juice. $\frac{7}{8}$ liter evaporates. How much juice is left? How much more is needed to fill the container?

Show your work:

Juice left: _____ More needed: _____

SPIRAL REVIEW (4 problems)

↻ Spiral Review — Week 2

19. 487 × 8 = _____

Answer: _____

↻ Spiral Review — Week 2

20. 3,745 ÷ 5 = _____ remainder _____

Answer: _____

↻ Spiral Review — Week 1

21. 348,217 + 124,865 = _____

Answer: _____

↻ Spiral Review — Week 1

22. Round 47,638 to the nearest thousand.

Answer: _____

★ CHALLENGE — OPTIONAL

Using only the digits 1, 2, 3, 4, 5, and 6 (each used once as a numerator or denominator), create three different fractions. Order them from least to greatest. Can you find a combination where two of your fractions are equivalent?

My three fractions: _____ Order: _____

WEEKLY REFLECTION

What felt hardest this week? What felt easy or fun?

Parent/guardian sign-off: _____ Date: _____

Week 4 of 9

Decimals — place value, comparing, adding & subtracting

WEEK 4 OF 9

Name: _____ Date completed: _____

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Part 1 *~20–25 minutes · 12 problems*

WARM-UP (5 problems)

1. What is the value of the digit 4 in 3.447?

   Answer: _____

2. Round 4.738 to the nearest tenth.

   Answer: _____

3. Order from least to greatest: 0.45 0.405 0.54 0.504

   Answer: _____

4. 4.85 + 3.27 = _____

   Answer: _____

5. 10 − 4.63 = _____

   Answer: _____

CORE PRACTICE (5 problems)

6. 14.728 + 8.345 = _____

   Answer: _____

7. 25.4 − 13.87 = _____

   Answer: _____

8. 100 − 48.375 = _____

   Answer: _____

9. Write 0.325 as a fraction in simplest form.

   Answer: _____

10. Which is greater: 3.08 or 3.80? By how much?

    Answer: _____

WORD PROBLEMS (2 problems)

(11) Maria runs 2.45 km on Monday, 3.8 km on Wednesday, and 1.75 km on Friday. How far total? How much more to reach 10 km?

Show your work:

Total km: _____ More needed: _____

(12) A lunch costs $4.75. You pay with a $10 bill. Change? If you also buy a drink for $1.35, how much total and how much change from $20?

Show your work:

Change from $10: _____ Total with drink: _____ Change from $20: _____

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

Part 2 *~20–25 minutes · 10 problems + optional challenge*

PUSHING FURTHER (4 problems)

These problems require more reasoning. Show all steps.

(13) A decimal number rounds to 3.5 when rounded to the nearest tenth. What is the smallest it could be? The largest?

(14) Three swimmers: 1.48 min, 1.52 min, 1.39 min. Who finished first? What was the difference between fastest and slowest?

(15) 45.6 + 8.74 − 12.305 = _____

(16) Put in order from least to greatest: $\frac{3}{4}$, 0.7, $\frac{7}{8}$, 0.82, $\frac{4}{5}$

MULTI-STEP WORD PROBLEMS (2 problems)

(17) A recipe calls for 2.75 cups of flour, 0.5 cup of sugar, and 1.25 cups of milk. Total volume? If you double the recipe, how much flour do you need?

Show your work:

Total volume: _____ Doubled flour: _____

(18) Three friends compare heights: Ella is 1.42 m, James is 1.38 m, Sofia is 1.45 m. How much taller is Sofia than James? How much would James need to grow to match Ella?

Show your work:

Sofia vs James: _____ James to match Ella: _____

SPIRAL REVIEW (4 problems)

↻ **Spiral Review — Week 3**

19 $5\frac{1}{4} - 2\frac{3}{4} =$ _____

Answer: _____

↻ **Spiral Review — Week 3**

20 Order from least to greatest: $\frac{2}{3}$ $\frac{3}{4}$ $\frac{5}{8}$ $\frac{7}{12}$

Answer: _____

↻ **Spiral Review — Week 2**

21 $56 \times 23 =$ _____

Answer: _____

↻ **Spiral Review — Week 2**

22 $1{,}248 \div 6 =$ _____

Answer: _____

★ **CHALLENGE — OPTIONAL**

A store has three items: a book for $8.49, a pencil case for $4.75, and a notebook for $3.98. You have $20. Can you buy all three? How much change would you get? Now find two combinations of two items that together cost as close to $15 as possible without going over.

Answer: _____

WEEKLY REFLECTION

What felt hardest this week? What felt easy or fun?

Parent/guardian sign-off: _____ Date: _____

Week 5 of 9

Geometry — area & perimeter

WEEK 5 OF 9

Name: _____ Date completed: _____

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Part 1 *~20–25 minutes · 12 problems*

WARM-UP (5 problems)

1. Find the perimeter of a rectangle: length 9 cm, width 5 cm.

   Answer: _____

2. Find the area of that same rectangle.

   Answer: _____

3. Find the area of a triangle with base 8 m and height 5 m.

   Answer: _____

4. A square has a perimeter of 28 inches. What is the side length? What is the area?

   Answer: _____

5. A rectangle has area 96 sq cm and length 12 cm. What is the width?

   Answer: _____

CORE PRACTICE (5 problems)

6. Find the area of a triangle: base 12 cm, height 7 cm.

   Answer: _____

7. Find the perimeter of a triangle with sides 8.5 cm, 6.4 cm, and 10.2 cm.

   Answer: _____

8. A rectangle has a perimeter of 38 m. Its length is 12 m. What is the width and area?

   Answer: _____

9. A square has an area of 81 sq ft. What is the perimeter?

   Answer: _____

10. A rectangle has length (in cm) that is twice its width. Its area is 50 sq cm. Find the length and width.

    Answer: _____

WORD PROBLEMS (2 problems)

11 A rectangular bedroom is 14 ft by 11 ft. Carpet costs $3.50 per sq ft. How much to carpet the room? How much baseboard trim is needed (the perimeter)?

Show your work:

Carpet cost: ——— Baseboard length: ———

12 A triangular garden has a base of 8 m and height of 6 m. The three sides measure 8 m, 7.5 m, and 9.5 m. How much fencing is needed? What is the area?

Show your work:

Fencing needed: ——— Area: ———

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

Part 2 *~20–25 minutes · 10 problems + optional challenge*

PUSHING FURTHER (4 problems)

These problems require more reasoning. Show all steps.

13 A rectangle has the same area as a square with side 8 cm. If the rectangle's length is 16 cm, what is its width? Which shape has the greater perimeter?

14 An L-shaped figure is made of two rectangles: one 8×4 and one 5×3. What is the total area?

15 A rectangle's length is 3 times its width. Its area is 48 sq cm. Find the length and width. What is the perimeter?

16 You have 36 unit squares. List all the different rectangles you can make (length × width). Which gives the smallest perimeter?

MULTI-STEP WORD PROBLEMS (2 problems)

17 A park is shaped like a rectangle, 45 m by 30 m. A path 2 m wide runs along the inside edge of the entire park. What is the area of just the path?

Show your work:

Answer: ———

18 A farmer has 60 meters of fencing. Find three different length-width combinations that use exactly 60 m. Which gives the greatest area?

Show your work:

Combo 1: _____ Combo 2: _____ Combo 3: _____ Greatest area: _____

SPIRAL REVIEW (4 problems)

↻ Spiral Review — Week 4

19 14.728 + 8.345 = _____

Answer: _____

↻ Spiral Review — Week 4

20 100 − 48.375 = _____

Answer: _____

↻ Spiral Review — Week 3

21 $2\frac{3}{8} + 1\frac{7}{8}$ = _____

Answer: _____

↻ Spiral Review — Week 1

22 500,000 − 183,742 = _____

Answer: _____

★ CHALLENGE — OPTIONAL

You have 36 unit squares. Arrange them into as many different rectangles as possible. For each rectangle, find the perimeter. Which arrangement gives the smallest perimeter? Which gives the largest? What do you notice about the shape with the smallest perimeter?

Rectangles found: _____ Smallest perimeter: _____ Largest perimeter: _____

WEEKLY REFLECTION

What felt hardest this week? What felt easy or fun?

Parent/guardian sign-off: _____ Date: _____

Week 6 of 9

Measurement & data

WEEK 6 OF 9

Name: _____ Date completed: _____

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Part 1 *~20–25 minutes · 12 problems*

WARM-UP (5 problems)

1. How many centimeters are in 2.5 meters?

   Answer: _____

2. How many grams are in 3.2 kilograms?

   Answer: _____

3. Convert 180 minutes to hours and minutes.

   Answer: _____

4. 4,500 g = _____ kg

   Answer: _____

5. Find the mean of: 14, 18, 22, 10, 16.

   Answer: _____

CORE PRACTICE (5 problems)

6. 3.5 km = _____ m

   Answer: _____

7. 2 hours 45 minutes = _____ minutes total

   Answer: _____

8. A set of data: 120, 122, 122, 125, 125, 125, 128, 130. Find the mode, median, and range.

   Answer: _____

9. Test scores: 82, 76, 94, 88, 70, 82, 90. Find mean, median, mode, and range.

   Answer: _____

10. A recipe needs 750 ml of milk. You have a 2-liter carton. How many times can you make the full recipe? How many ml are left over?

    Answer: _____

WORD PROBLEMS (2 problems)

11 Five students held their breath (seconds): 34, 42, 38, 51, 45. Find the mean, median, and range. Which student is closest to the mean?

Show your work:

Mean: _____ Median: _____ Range: _____ Closest to mean: _____

12 A trip takes 2 hours 35 minutes. You leave at 9:45 AM — when do you arrive? If you need to arrive by 12:30 PM, what is the latest you can leave?

Show your work:

Arrival time: _____ Latest departure: _____

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

Part 2 *~20–25 minutes · 10 problems + optional challenge*

PUSHING FURTHER (4 problems)

These problems require more reasoning. Show all steps.

13 A dog weighs 8.4 kg. Its puppies each weigh 850 g. How many puppies would equal the weight of the mother? How much heavier is the mother than 9 puppies?

14 If an eighth score of 100 is added to 82, 76, 94, 88, 70, 82, 90 — how does the mean change? How does the median change?

15 A 5 kg bag of flour is used over 3 days: 1.25 kg, 0.8 kg, 1.4 kg. How much is left? What was the average daily use?

16 Create a data set of 7 numbers where the mean is 20, the median is 18, and the range is 14.

MULTI-STEP WORD PROBLEMS (2 problems)

17 Four runners finished a 400 m race (seconds): 58.4, 61.2, 57.8, 62.5. What was the average time? By how many seconds did the winner beat the slowest runner?

Show your work:

Average time: _____ Difference: _____

18 A class recorded daily temperatures for one week (°C): 22, 25, 24, 28, 23, 26, 24. Find the mean, median, mode, and range. On which days was the temperature above the mean?

Show your work:

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

Above mean days: _____

SPIRAL REVIEW (4 problems)

↻ **Spiral Review — Week 5**

19 Find the area of a triangle: base 12 cm, height 7 cm.

Answer: _____

↻ **Spiral Review — Week 5**

20 A rectangle has perimeter 38 m and length 12 m. Find the width and area.

Answer: _____

↻ **Spiral Review — Week 4**

21 25.4 − 13.87 = _____

Answer: _____

↻ **Spiral Review — Week 3**

22 $5\frac{1}{4} - 2\frac{3}{4}$ = _____

Answer: _____

★ CHALLENGE — OPTIONAL

The Fibonacci sequence: 1, 1, 2, 3, 5, 8, 13... Each number is the sum of the two before it. Write the next 6 terms. Add up the first 5 terms, the first 7 terms, and the first 9 terms. Do you notice anything about these sums compared to terms in the sequence?

Next 6 terms: _____ Sums: _____

WEEKLY REFLECTION

What felt hardest this week? What felt easy or fun?

Parent/guardian sign-off: _____ Date: _____

Week 7 of 9

Patterns, rules & intro to variables

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 *~20–25 minutes · 12 problems*

WARM-UP (5 problems)

1. Continue the pattern: 3, 6, 12, 24, _____, _____. What is the rule?

   Answer: _____

2. Continue the pattern: 100, 93, 86, 79, _____, _____. What is the rule?

   Answer: _____

3. Evaluate 4n when n = 7.

   Answer: _____

4. Evaluate 3x + 2 when x = 5.

   Answer: _____

5. Write an expression for 'a number n multiplied by 5, then decreased by 3.'

   Answer: _____

CORE PRACTICE (5 problems)

6. Complete the table:

   x: 1 2 3 4 5

   y: 5 8 11 __ __

   Rule: y = _____

   Answer: _____

7. Evaluate 2m − 4 when m = 3 and when m = 10.

   Answer: _____

8. Simplify: 3x + 2x = _____

   Answer: _____

9. A pattern: (1,4), (2,7), (3,10), (4,13). What is the rule? What is the 10th term?

   Answer: _____

10. Find the value of n: 5n + 3 = 28. Show your steps.

Answer: _____

WORD PROBLEMS (2 problems)

11 Tickets cost $6 each. Write an expression for the total cost of t tickets. Find the cost for 8, 15, and 25 tickets.

Show your work:

Expression: _____ 8 tickets: _____ 15 tickets: _____ 25 tickets: _____

12 A plant is 8 cm tall and grows 3 cm per week. Write an expression for its height after w weeks. After how many weeks will it be 35 cm tall?

Show your work:

Expression: _____ Weeks to 35 cm: _____

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

Part 2 *~20–25 minutes · 10 problems + optional challenge*

PUSHING FURTHER (4 problems)

These problems require more reasoning. Show all steps.

13 A pattern: 2, 6, 18, 54... What is the rule? What is the 6th term? Is 486 in this pattern?

14 Ana has $15 and saves $4/week. Ben has $3 and saves $6/week. Write expressions for each. After how many weeks will Ben have more than Ana?

15 Evaluate (n + 4) × 3 when n = 2, n = 5, and n = 8. What pattern do you notice?

16 A pool holds 5,000 gallons and drains at 125 gallons per hour. Write an expression for gallons remaining after h hours. When will it be half full? Completely empty?

MULTI-STEP WORD PROBLEMS (2 problems)

17 Squares are arranged in a growing pattern: 1, 4, 9, 16... What is the rule? Write an expression. How many squares are in the 8th figure? The 12th?

Show your work:

Rule/expression: _____ 8th figure: _____ 12th figure: _____

18 Two friends are saving. Maya has $20 and saves $5/week. Liam has $50 and spends $3/week. Write expressions. When will they have the same amount? Who has more after 8 weeks?

Show your work:

Expressions: _____ Equal at week: _____ After 8 weeks: _____

SPIRAL REVIEW (4 problems)

↻ Spiral Review — Week 6

19 Find the mean of: 14, 18, 22, 10, 16.

Answer: _____

↻ Spiral Review — Week 6

20 3.5 km = _____ m

Answer: _____

↻ Spiral Review — Week 5

21 Find the area of a rectangle: 13.5 cm × 8 cm.

Answer: _____

↻ Spiral Review — Week 3

22 $3\frac{5}{8} + 2\frac{7}{8} =$ _____

Answer: _____

★ CHALLENGE — OPTIONAL

The sum of three consecutive even numbers is 78. Write an expression using n for the smallest number, then solve for n. What are the three numbers? Now find three consecutive odd numbers that sum to 81.

Even numbers: _____ Odd numbers: _____

WEEKLY REFLECTION

What felt hardest this week? What felt easy or fun?

Parent/guardian sign-off: _____ Date: _____

Week 8 of 9

Mixed review — numbers & operations

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 *~20–25 minutes · 12 problems*

WARM-UP (5 problems)

1. Round 3,847,205 to the nearest hundred-thousand.
   Answer: _____
2. 4,872 ÷ 8 = _____
   Answer: _____
3. 56 × 47 = _____
   Answer: _____
4. $\frac{3}{8} + \frac{7}{8}$ = _____
   Answer: _____
5. 14.728 − 8.345 = _____
   Answer: _____

CORE PRACTICE (5 problems)

6. 348,217 + 482,965 = _____
   Answer: _____
7. $2\frac{3}{8} + 1\frac{7}{8}$ = _____
   Answer: _____
8. 25.4 − 13.87 = _____
   Answer: _____
9. A number multiplied by 7 gives 3,472. What is the number?
   Answer: _____
10. Evaluate 3x + 2 when x = 6.
    Answer: _____

WORD PROBLEMS (2 problems)

11 A store had 1,482 items. They sold 748 on Monday and 395 on Tuesday. They received 500 new items on Wednesday. How many items do they have now?

Show your work:

Answer: _____

12 A company earned $2,450,000 in Month 1 and $1,873,500 in Month 2, and spent $985,750 on expenses. What was their net earnings?

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 *~20–25 minutes · 10 problems + optional challenge*

PUSHING FURTHER (4 problems)

These problems require more reasoning. Show all steps.

13 A number is multiplied by 6, then 48 is subtracted, and the result is 102. What is the number?

14 Three consecutive even numbers sum to 78. What are the three numbers?

15 Which is greater: 4,824 ÷ 8 or 3,906 ÷ 6? By how much?

16 A 5 kg bag of flour is used: Day 1: 1.25 kg, Day 2: 0.8 kg. How much is left after Day 2? What percent of the bag has been used?

MULTI-STEP WORD PROBLEMS (2 problems)

17 A swimmer trains 5 days a week. Her times (minutes): 42.5, 38.8, 41.2, 39.6, 40.4. What is her mean time? Fastest? Slowest? Range?

Show your work:

Mean: _____ Fastest: _____ Slowest: _____ Range: _____

18 Mt. Everest is 29,032 feet. Mt. Whitney is 14,505 feet. How much taller is Everest? If a climber has scaled 8,750 feet of Everest, how much further must she go? Round your

answer to the nearest hundred feet.

Show your work:

Height difference: _____ Distance remaining: _____

SPIRAL REVIEW (4 problems)

↻ Spiral Review — Week 7

(19) Continue the pattern: 3, 6, 12, 24... What is the 7th term?

Answer: _____

↻ Spiral Review — Week 7

(20) Find the value of n: 5n + 3 = 28.

Answer: _____

↻ Spiral Review — Week 6

(21) Find the mean of: 14, 18, 22, 10, 16.

Answer: _____

↻ Spiral Review — Week 5

(22) Find the area of a triangle: base 8 m, height 5 m.

Answer: _____

★ CHALLENGE — OPTIONAL

Using the numbers 1 through 9 (each used exactly once), fill in the blanks:

__ + __ = 11
__ × __ = 20
__ − __ = 3

The remaining three numbers sum to: __

Answer: _____

WEEKLY REFLECTION

What felt hardest this week? What felt easy or fun?

Parent/guardian sign-off: _____ Date: _____

Week 9 of 9

Mixed review — fractions, decimals & 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 *~20–25 minutes · 12 problems*

WARM-UP (5 problems)

1. Simplify $\frac{18}{24}$ to lowest terms.

   Answer: _____

2. Order from least to greatest: $\frac{3}{4}$, 0.7, $\frac{5}{8}$, 0.82

   Answer: _____

3. Round 8.4726 to the nearest hundredth.

   Answer: _____

4. Find the area of a rectangle: 13.5 cm × 8 cm.

   Answer: _____

5. Evaluate $3x - 7$ when $x = 9$.

   Answer: _____

CORE PRACTICE (5 problems)

6. $3\frac{5}{8} + 2\frac{7}{8} =$ _____

   Answer: _____

7. $45.6 + 8.74 - 12.305 =$ _____

   Answer: _____

8. A rectangle has perimeter 54 cm and its length is twice its width. Find the dimensions and area.

   Answer: _____

9. Find the mean, median, and range of: 24, 18, 32, 14, 22.

   Answer: _____

10. Continue the pattern: 2, 6, 18, 54... What is the 6th term?

    Answer: _____

WORD PROBLEMS (2 problems)

11 A ribbon $6\frac{3}{8}$ feet long is cut into pieces of $\frac{7}{8}$ foot each. How many full pieces? Is there any ribbon left over?

Show your work:

Pieces: _____ Leftover: _____

12 A garden is 12.5 m long and 8.4 m wide. Fertilizer costs $2.50 per square meter. Fencing costs $4.00 per meter. What is the total cost to fertilize the garden and fence it?

Show your work:

Fertilizer cost: _____ Fencing cost: _____ Total: _____

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

Part 2 *~20–25 minutes · 10 problems + optional challenge*

PUSHING FURTHER (4 problems)

These problems require more reasoning. Show all steps.

13 A number is 3 less than twice another. Their sum is 27. Find both numbers.

14 The ratio of boys to girls in a class is 3:4. There are 28 students total. How many boys? How many girls?

15 A decimal number plus 4.375 equals 10. What is the decimal number? Round it to the nearest tenth.

16 Write a fraction, a decimal, and a percent that are all equivalent. Now write three more sets of equivalent fraction-decimal-percent values.

MULTI-STEP WORD PROBLEMS (2 problems)

17 A cyclist rides at 12 mph and a jogger runs at 6 mph. They start from opposite ends of a 24-mile trail at the same time. After how many hours will they meet? How far from each starting point?

Show your work:

Hours: _____ Distance from cyclist start: _____ Distance from jogger start: _____

18 A school carnival sold adult tickets for $5 and student tickets for $3. They sold 120 tickets and collected $456. How many of each type were sold?

Show your work:

Adult tickets: _____ Student tickets: _____

SPIRAL REVIEW (4 problems)

↻ Spiral Review — Week 7

19 A plant is 8 cm tall and grows 3 cm/week. Write an expression. When is it 35 cm?

Answer: _____

↻ Spiral Review — Week 6

20 Test scores: 82, 76, 94, 88, 70, 82, 90. Find mean, median, mode, range.

Answer: _____

↻ Spiral Review — Week 5

21 A farmer has 60 m of fencing. Which rectangle dimensions give the greatest area?

Answer: _____

↻ Spiral Review — Week 2

22 487 × 8 = _____

Answer: _____

★ CHALLENGE — OPTIONAL

You have been doing math all summer — here's your final challenge! A swimming pool is being filled by two pipes. 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 fun?

Parent/guardian sign-off: _____ Date: _____