Students entering 5th Grade

# Grade 4 Mathematics

## Student At-Home Activity Packet

This At-Home Activity Packet includes 23 sets of practice problems that align to important math concepts your student has worked with so far this year.

We recommend that your student completes one page of practice problems each day.

Encourage your student to do the best they can with this content—the most important thing is that they continue developing their mathematical fluency and skills.

See the Grade 4 Math concepts covered in this packet!

# Grade 4 Math concepts covered in this packet

## Rounding Whole Numbers

Name: _____

**Round each number to the nearest ten.**

1. 72 _____
2. 172 _____
3. 2,572 _____
4. 101,372 _____

**Round each number to the nearest hundred.**

5. 180 _____
6. 1,180 _____
7. 56,180 _____
8. 980 _____
9. 1,980 _____
10. 56,980 _____

**Round each number to the nearest thousand.**

11. 7,750 _____
12. 17,750 _____
13. 25,750 _____
14. 70,750 _____

**Round each number to the nearest ten thousand.**

15. 65,321 _____
16. 165,321 _____
17. 185,321 _____
18. 205,321 _____

19. Round 307,451 to each place value given below.

to the nearest thousand: _____

to the nearest hundred: _____

to the nearest ten: _____

## Comparing Multi-Digit Numbers

Name: _____

Set A

**Write the symbol that makes each statement true. Use >, <, or =.**

1. 23,230 _____ 2,323
2. 33,003 _____ 33,030
3. 9,999 _____ 10,000
4. 40,404 _____ 40,040
5. 52,177 _____ 52,771
6. 421,073 _____ 412,730

Set B

7. Circle all the numbers that are less than 78,265.

78,000 79,000 70,000 80,000 78,200 78,300

8. Circle all the numbers that are less than 45,763.

46,000 40,000 50,000 45,700 45,800 45,000

9. Circle all the numbers that are greater than 108,427.

108,000 108,400 108,500 109,000 108,430 108,420

10. How did you solve problem 7?

## Modeling Multi-Step Problems

Name: _____

**Write an equation to represent each problem. Show your work.**

1. The Lopez family goes to the movies. They buy 2 adult tickets for $6 each and 3 child tickets for $4 each. Write an equation to represent how much money the family spends on movie tickets, *t*.

2. Grace earns $5 each time she walks her neighbor's dog. She walks the dog 5 times in one week. Then she spends $7 on a book and $9 on a building set. Write an equation to represent how much money Grace has left, *m*.

3. During the basketball game, Mika makes 3 baskets worth 2 points each, 2 baskets worth 3 points each, and 2 free throws worth 1 point each. Write an equation to represent how many points Mika scores, *p*.

4. Will has 20 pounds of apples. He makes 2 batches of applesauce that use 4 pounds each, one batch of apple butter that uses 6 pounds, and he uses 3 pounds to make juice. Write an equation to represent how many pounds of apples Will has left, *p*.

5. What strategies did you use to write an equation?

6. Is there another way you could write one of your equations? Could you write it as two equations? Explain.

# Solving Multi-Step Problems

Name: _____

**Write and solve an equation for each problem. Show your work.**

**1** Tasha spends 25 minutes reading on Wednesday night. She spends 17 more minutes reading on Thursday than she did on Wednesday. Write and solve an equation to find how many minutes Tasha spent reading on Wednesday and Thursday nights.

Tasha spent _____ minutes reading.

**2** Erik has 2 bags of bird seed. One bag has 10 pounds of seed, and the other bag has 8 pounds of seed. He fills 7 bird feeders with 2 pounds each. Write and solve an equation to find how many pounds of bird seed are left.

There are _____ pounds left.

**3** There are 15 boys and 19 girls in math club. The tables in Mrs. Miller's classroom seat 4 students each. Write and solve an equation to find how many tables Mrs. Miller will need.

Mrs. Miller will need _____ tables.

**4** Frankie earns $5 each time he babysits his little sister. He has saved $30. Frankie wants to save $52 to buy a new skateboard. Write and solve an equation to find how many more times Frankie will need to babysit.

Frankie will need to babysit _____ more times.

**5** How can you estimate to check one of your answers? Show your work.

## Multiplying a Three-Digit Number by a One-Digit Number

Name: _____

**Find the product.**

1. $500 \times 4 =$ _____ $501 \times 4 =$ _____ $506 \times 4 =$ _____

2. $300 \times 2 =$ _____ $299 \times 2 =$ _____ $298 \times 2 =$ _____

3. $400 \times 3 =$ _____ $405 \times 3 =$ _____ $410 \times 3 =$ _____

4. $499 \times 6 =$ _____

5. $706 \times 3 =$ _____

6. $195 \times 5 =$ _____

7. What pattern do you notice in problem 2? How could it help you solve a problem such as $297 \times 2$?

8. Choose problem 4, 5, or 6. Explain how you could check your answer.

# Multiplying a Four-Digit Number by a One-Digit Number

Name: _____

**Estimate. Circle all the problems that will have products between 18,000 and 32,000. Then find the exact products of only the problems you circled. Show your work.**

1. 8,491 × 2 = _____
2. 6,148 × 4 = _____
3. 7,062 × 5 = _____
4. 4,362 × 5 = _____
5. 1,789 × 8 = _____
6. 2,206 × 9 = _____
7. 7,218 × 4 = _____
8. 9,821 × 3 = _____
9. 4,762 × 6 = _____
10. 6,739 × 6 = _____
11. 7,964 × 4 = _____
12. 3,618 × 7 = _____

13. What strategies did you use to solve the problems? Explain.

## Multiplying by Two-Digit Numbers

Name: _____

**Estimate each multiplication problem to check if the student's answer is reasonable. If not, cross out the answer and write the correct answer.**

| Multiplication Problems | Student Answers |
|---|---|
| $14 \times 17$ | ~~2,380~~ 238 Estimate: $14 \times 20 = 280$ |
| $15 \times 19$ | *285* |
| $21 \times 18$ | *3,078* |
| $16 \times 13$ | *28* |

## Multiplying by Two-Digit Numbers *continued*

Name: _____

| Multiplication Problems | Student Answers |
|---|---|
| 13 × 31 | *403* |
| 18 × 17 | *3,056* |
| 21 × 15 | *3,015* |
| 12 × 22 | *2,604* |

1. How does estimating a multiplication problem help you know if an answer is reasonable?

## Division in Word Problems

Name: _____

**Use a strategy of your choice to solve each problem.**

1. There are 5 times as many tulips as rose bushes in a garden. There are 15 tulips. How many rose bushes are in the garden?

   There are _____ rose bushes in the garden.

2. Kelly has 2 times as many quarters as dimes. She has 18 quarters. How many dimes does she have?

   Kelly has _____ dimes.

3. There are 18 blueberries in a bowl. There are 3 times as many blueberries as strawberries in the bowl. How many strawberries are in the bowl?

   There are _____ strawberries in the bowl.

4. Amanda swims for 16 minutes. This is 4 times as many minutes as Julio swims. How many minutes does Julio swim?

   Julio swims _____ minutes.

5. A tile pattern has 6 times as many white squares as gray squares. There are 48 white tiles in the pattern. How many gray tiles are there?

   There are _____ gray tiles in the pattern.

6. Leah has 3 times as many country songs as she has pop songs on her MP3 player. She has 27 country songs. How many pop songs does Leah have?

   Leah has _____ pop songs.

7. Erik sees 42 stars in the sky on Tuesday night. This is 7 times as many stars as he sees on Monday night. How many stars does Erik see on Monday night?

   Erik sees _____ stars on Monday night.

8. Lucas spends 72 minutes cleaning his room. This is 8 times as long as it takes him to wash the dishes. How long does it take Lucas to wash the dishes?

   It takes Lucas _____ minutes to wash the dishes.

9. Write and solve a word problem for this equation: $6 \times n = 54$

## Dividing with Arrays and Area Models

Name: _____

**The answers to problems 1–12 are mixed up at the bottom of the page. Cross out the answers as you complete the problems.**

1. 606 ÷ 2 = _____
2. 606 ÷ 3 = _____
3. 903 ÷ 3 = _____
4. 408 ÷ 8 = _____
5. 243 ÷ 3 = _____
6. 721 ÷ 7 = _____
7. 545 ÷ 5 = _____
8. 488 ÷ 8 = _____
9. 816 ÷ 4 = _____
10. 728 ÷ 8 = _____
11. 459 ÷ 9 = _____
12. 366 ÷ 6 = _____

13. What strategies did you use to solve the problems?

14. Explain how to use multiplication to check your answer to problem 10.

**Answers**

| | | | | | |
|---|---|---|---|---|---|
| 91 | 303 | 61 | 202 | 204 | 109 |
| 81 | 51 | 301 | 103 | 51 | 61 |

## Subtracting Fractions

Name: _____

**Solve each problem.**

1. Sammy has $\frac{4}{5}$ of his art project left to paint. He paints $\frac{2}{5}$ of the project. What fraction of the project is left to paint?

2. Marianne has $\frac{6}{8}$ of a yard of green ribbon. She uses $\frac{3}{8}$ of a yard for a craft project. How much green ribbon is left?

3. Yuna plans to run 1 mile. She has run $\frac{7}{10}$ of a mile so far. What fraction of a mile does she have left to run?

4. Alex and Brady are helping to pack books into a box. Together they pack $\frac{7}{12}$ of the books. Alex packs $\frac{4}{12}$ of the books. What fraction of the books does Brady pack?

Name: _____

**5** On Monday, Adam walks $\frac{3}{10}$ of a mile to the store and then $\frac{4}{10}$ of a mile to the park. How far does he walk in all?

**6** Javier has $\frac{7}{8}$ of a cup of flour. He uses $\frac{3}{8}$ of a cup in a recipe. How much flour does Javier have left?

**7** Shawna practices piano for $\frac{4}{6}$ of an hour and takes a break. Shawna then practices for $\frac{2}{6}$ of an hour more. How long does Shawna practice in all?

**8** Kailee has finished $\frac{4}{5}$ of her math homework so far. What fraction of her math homework does she have left to finish?

**9** Explain one way to check your work to problem 2.