

# APS 5th Grade Math Week 1



<b>Day1</b>	<ul style="list-style-type: none"><li>• April Week 1 Monday</li><li>• Online:<ul style="list-style-type: none"><li>• Watch the Visual Learning Video in the math assignments tab for Topic 1-1. This will be in your assignments in Pearson.</li></ul></li><li>• Complete the Homework Buddy: Homework &amp; Practice Topic 1-1 in Pearson</li><li>• 5<sup>th</sup> Grade Math IXL A.5 also consider A.1 (Extra Help)</li><li>• Paper:<ul style="list-style-type: none"><li>• If working on the packet complete Topic 1-1 guided practice page 7 and homework page 9.</li></ul></li><li>• If you need extra help: <a href="https://www.khanacademy.org/cc-fifth-grade-math">https://www.khanacademy.org/cc-fifth-grade-math</a></li></ul>
<b>Day2</b>	<ul style="list-style-type: none"><li>• April Week 1 Tuesday</li><li>• Online:<ul style="list-style-type: none"><li>• Watch the Visual Learning Video in the math assignments tab for Topic 1-5. This will be in your assignments in Pearson.</li></ul></li><li>• Complete the Homework Buddy: Homework &amp; Practice Topic 1-5 in Pearson</li><li>• 5<sup>th</sup> Grade Math IXL G.10 &amp; G.11 also consider G.9 (Extra Help)</li><li>• Paper:<ul style="list-style-type: none"><li>• If working on the packet complete Topic 1-5 guided practice page 31 and homework page 33.</li></ul></li><li>• If you need extra help: <a href="https://www.khanacademy.org/cc-fifth-grade-math">https://www.khanacademy.org/cc-fifth-grade-math</a></li></ul>
<b>Day3</b>	<ul style="list-style-type: none"><li>• April Week 1 Wednesday</li><li>• Online:<ul style="list-style-type: none"><li>• Watch the Visual Learning Video in the math assignments tab for Topic 2-6. This will be in your assignments in Pearson.</li></ul></li><li>• Complete the Homework Buddy: Homework &amp; Practice Topic 2-6 in Pearson</li><li>• 5<sup>th</sup> Grade Math IXL G.19; H.3 &amp; H.4 also consider H.5-H.6 &amp; S.1-S.2 (Extra Help)</li><li>• Paper:<ul style="list-style-type: none"><li>• If working on the packet complete Topic 2-6 guided practice page 91 and homework page 93.</li></ul></li><li>• If you need extra help: <a href="https://www.khanacademy.org/cc-fifth-grade-math">https://www.khanacademy.org/cc-fifth-grade-math</a></li></ul>

Day4	<ul style="list-style-type: none"> <li>• April Week 1 Thursday</li> <li>• Online: <ul style="list-style-type: none"> <li>• Watch the Visual Learning Video in the math assignments tab for Topic 3-1. This will be in your assignments in Pearson.</li> </ul> </li> <li>• Complete the Homework Buddy: Homework &amp; Practice Topic 3-1 in Pearson</li> <li>• 5<sup>th</sup> Grade Math IXL C.8-C.9 (Extra Help)</li> <li>• Paper: <ul style="list-style-type: none"> <li>• If working on the packet complete Topic 3-1 guided practice page 115 and homework page 117.</li> </ul> </li> <li>• If you need extra help: <a href="https://www.khanacademy.org/cc-fifth-grade-math">https://www.khanacademy.org/cc-fifth-grade-math</a></li> </ul>
Day5	<ul style="list-style-type: none"> <li>• April Week 1 Friday</li> <li>• Online: <ul style="list-style-type: none"> <li>• Watch the Visual Learning Video in the math assignments tab for Topic 3-3. This will be in your assignments in Pearson.</li> </ul> </li> <li>• Complete the Homework Buddy: Homework &amp; Practice Topic 3-3 in Pearson</li> <li>• 5<sup>th</sup> Grade Math IXL C.12-C.14 also consider C.15-C.16 (Extra Help)</li> <li>• Paper: <ul style="list-style-type: none"> <li>• If working on the packet complete Topic 3-3 guided practice page 127 and homework page 129.</li> </ul> </li> <li>• If you need extra help: <a href="https://www.khanacademy.org/cc-fifth-grade-math">https://www.khanacademy.org/cc-fifth-grade-math</a></li> </ul>

### **30 MINUTES OF MATH ASSIGNMENTS PERDAY**

**Math worksheets will be attached for extra practice if needed**

#### **How to Get on Pearson Online:**

- Go to website <https://bulldogs.powerschool.com/public/>
- Enter your child's username and password.
- On the bottom left, click on the Pearson Courses icon. This will open up a new browser.
- Select the math tab.
- Then select assignments.
- Click on assignment needed for each day.

Please contact your child's teacher if you need their username or password for any of the online resources. Do not hesitate to contact your child's teacher with any questions that may arise during the we

## ☆ Guided Practice

### Do You Understand?

1. **MP.2 Reasoning** Why are there three zeros in the product of  $6 \times 10^3$ ?

2. Susan said that  $10^5$  is 50. What mistake did Susan make? What is the correct answer?

### Do You Know How?

In 3 and 4, complete the pattern.

3.  $10^1 =$

$10^2 =$

$10^3 =$

$10^4 =$

4.  $7 \times 10^1 =$

$7 \times 10^2 =$

$7 \times 10^3 =$

$7 \times 10^4 =$

## ☆ Independent Practice

In 5–15, find each product. Use patterns to help.

5.  $3 \times 10^1 =$

$3 \times 10^2 =$

$3 \times 10^3 =$

$3 \times 10^4 =$

6.  $2 \times 10 =$

$2 \times 100 =$

$2 \times 1,000 =$

$2 \times 10,000 =$

7.  $9 \times 10^1 =$

$9 \times 10^2 =$

$9 \times 10^3 =$

$9 \times 10^4 =$

8.  $8 \times 10^4$

9.  $4 \times 1,000$

10.  $5 \times 10^2$

11.  $6 \times 10,000$

12.  $4 \times 10^1$

13.  $100 \times 9$

14.  $10^3 \times 6$

15.  $8 \times 10^5$

16. Write  $10 \times 10 \times 10 \times 10 \times 10 \times 10$  with an exponent. Explain how you decided what exponent to write.

## Homework & Practice 1-1

### Patterns with Exponents and Powers of 10

#### Another Look!

Patterns can help you multiply by powers of 10.

Find the product of  $8 \times 10^4$ .

Write the product in standard form.

$$8 \times 10^1 = 8 \times 10 = 80$$

$$8 \times 10^2 = 8 \times 10 \times 10 = 800$$

$$8 \times 10^3 = 8 \times 10 \times 10 \times 10 = 8,000$$

$$8 \times 10^4 = 8 \times 10 \times 10 \times 10 \times 10 = 80,000$$

So,  $8 \times 10^4$  written in standard form is 80,000.

The number of zeros in the product is the same as the exponent.



- Write  $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$  with an exponent.
- Write  $6 \times 10 \times 10 \times 10 \times 10$  with an exponent.
- How many zeros are in the standard form of  $10^7$ ? Write this number in standard form.

In 4–14, find each product. Use patterns to help.

4.  $4 \times 10^1 =$

$4 \times 10^2 =$

$4 \times 10^3 =$

$4 \times 10^4 =$

5.  $7 \times 10 =$

$7 \times 100 =$

$7 \times 1,000 =$

$7 \times 10,000 =$

6.  $5 \times 10^1 =$

$5 \times 10^2 =$

$5 \times 10^3 =$

$5 \times 10^4 =$

7.  $3 \times 10^1$

8.  $2 \times 100$

9.  $3 \times 10^4$

10.  $1,000 \times 9$

11.  $6 \times 10^2$

12.  $3 \times 10^3$

13.  $10,000 \times 2$

14.  $8 \times 10^5$

15. Explain how to find the number of zeros in the product for Exercise 14.

## Another Example

Order the cockroaches from least to greatest length.

### Step 1

Write the numbers, lining up the decimal points. Start at the left. Compare digits of the same place value.

3.576  
3.432  
3.582

3.432 is the least.

### Step 2

Write the remaining numbers, lining up the decimal points. Start at the left. Compare.

3.576  
3.582

3.582 is greater than 3.576.

### Step 3

Write the numbers from least to greatest.

3.432 3.576 3.582

From least to greatest lengths are the Oriental, the American, and the Australian.

## ★ Guided Practice

### Do You Understand?

1. **MP.3 Critique Reasoning**  
 Scientists measured a Madeira cockroach and found it to be 3.44 centimeters long. Toby says that the Madeira is shorter than the Oriental because 3.44 has fewer digits than 3.432. Is he correct? Explain.

### Do You Know How?

In 2 and 3, write  $>$ ,  $<$ , or  $=$  for each .

2. 3.692  3.697    3. 7.216  7.203

In 4 and 5, order the decimals from least to greatest.

4. 5.540, 5.631, 5.625  
5. 0.675, 1.529, 1.35, 0.693

## ★ Independent Practice

In 6–8, compare the two numbers. Write  $>$ ,  $<$ , or  $=$  for each .

6. 0.890  0.89

7. 5.733  5.693

8. 9.707  9.717

In 9 and 10, order the decimals from greatest to least.

9. 878.403, 887.304, 887.043

10. 435.566, 436.565, 435.665

## Homework & Practice 1-5

### Compare Decimals

### Another Look!

Amanda completed a race in 8.016 minutes. Liz's time was 7.03 minutes, and Steve's time was 8.16 minutes. Order the times from least to greatest. Who won the race?

Remember, the winner of a race is the person who ran it in the least amount of time.



Write the numbers, lining up the decimal points. Start at the left. Compare digits of the same place value.

8.016  
7.03  
8.16

7.03 is the least.

Write the remaining numbers, lining up the decimal points. Start at the left. Compare.

8.016  
8.16

8.16 is greater than 8.016.



Liz won the race!

7.03, 8.016, 8.16

- Order the speeds from least to greatest.
- Driver D had a speed between Driver A and Driver C. Write a possible speed for Driver D.

DATA

Driver	Average Speed (mph)
Driver A	145.155
Driver B	145.827
Driver C	144.809

In 3–8, write  $>$ ,  $<$ , or  $=$  for each .

3. 7.539  7.344

4. 9.202  9.209

5. 0.75  0.750

6. 4.953  4.951

7. 1.403  1.4

8. 3.074  3.740

In 9–12, order from greatest to least.

9. 9.129, 9.37, 9.3, 9.219

10. 0.012, 0.100, 0.001, 0.101

11. 5.132, 5.123, 5.312, 5.231

12. 62.905, 62.833, 62.950, 62.383

## ☆ Guided Practice

### Do You Understand?

- © MP.8 Generalize How are adding and subtracting decimals similar to and different from adding and subtracting whole numbers?
- © MP.3 Construct Arguments Describe how you know whether to add or subtract to solve a decimal problem.

### Do You Know How?

In 3–10, find each sum or difference.

$$\begin{array}{r} 3. \quad 5.9 \\ + 2.7 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 4.01 \\ - 2.95 \\ \hline \end{array}$$

$$5. \quad 2.57 + 7.7$$

$$6. \quad 1.5 - 1.05$$

$$7. \quad 10 + 3.28$$

$$8. \quad 15 - 6.01$$

$$9. \quad 3.45 - 1.6$$

$$10. \quad 9.12 + 2.06$$

## ☆ Independent Practice

Leveled Practice In 11–24, find each sum or difference.

$$\begin{array}{r} 11. \quad 2.17 \\ - 0.8 \\ \hline 1. \end{array}$$

$$\begin{array}{r} 12. \quad 4.3 \\ + 4.16 \\ \hline 8. \end{array}$$

$$\begin{array}{r} 13. \quad 7.62 \\ - 3.86 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 14. \quad 4.81 \\ + 2.7 \\ \hline 9 \end{array}$$

$$15. \quad 5.87 - 0.48$$

$$16. \quad 5.78 + 16.59$$

$$17. \quad 9.5 - 9.45$$

$$18. \quad 14 + 9.8$$

$$19. \quad 46.91 - 28.7$$

$$20. \quad 5.61 + 2.4$$

$$21. \quad 27 + 0.18$$

$$22. \quad 0.46 - 0.33$$

$$23. \quad 8.92 + 56 + 3.08$$

$$24. \quad 219.51 + 127.2 + 2.49$$

Remember to line up the decimal points.



## Homework & Practice 2-6

### Add and Subtract Decimals

#### Another Look!

Find  $1.93 + 41.6$ .

Estimate by rounding to the  
nearest whole number.  
 $2 + 42 = 44$



Write the numbers, lining up the decimal points. Annex zeros so all numbers have the same number of decimal places.

$$\begin{array}{r} 1.93 \\ + 41.60 \\ \hline 43.53 \end{array} \quad \leftarrow \text{Annex a zero.}$$

Add the numbers. Regroup if necessary. Write the decimal point in your answer.

43.53 is close to 44, so the answer is reasonable.

Find  $18.5 - 7.82$ .

Estimate using compatible numbers.  
 $18.5 - 8 = 10.5$



Write the numbers, lining up the decimal points. Annex zeros so all numbers have the same number of decimal places.

$$\begin{array}{r} 18.50 \\ - 7.82 \\ \hline 10.68 \end{array} \quad \leftarrow \text{Annex a zero.}$$

Subtract. Regroup if necessary. Write the decimal point in your answer.

10.68 is close to 10.5, so the answer is reasonable.

Leveled Practice 1–12, find the sum or difference.

1.  $17.2$   
 $+ 6.08$

2.  $14.25$   
 $- 5.14$

3.  $45.6$   
 $+ 26.3$

4.  $24.84 - 22.7$

5.  $13.64 - 8.3$

6.  $0.21 + 15.9$

7.  $3.65 - 1.41$

8.  $18.06 + 9.79 + 12$

9.  $8 - 6.38$

10.  $55.5 - 4.56$

11.  $8.32 + 95 + 12.68$

12.  $57.3 - 42.81$



## ☆ Guided Practice

### Do You Understand?

- How many zeros will there be in the product of  $39 \times 1,000$ ? How many zeros will there be in the product of  $50 \times 1,000$ ?
- Explain how to find the product of  $90 \times 10^4$ .

### Do You Know How?

In 3 and 4, write the products.

- $60 \times 1$   
 $60 \times 10$   
 $60 \times 100$   
 $60 \times 1,000$   
 $60 \times 10,000$
- $13 \times 10^0$   
 $13 \times 10^1$   
 $13 \times 10^2$   
 $13 \times 10^3$   
 $13 \times 10^4$

## ☆ Independent Practice

Leveled Practice In 5–24, find each product.

- |                       |                       |                        |                         |
|-----------------------|-----------------------|------------------------|-------------------------|
| 5. $89 \times 1$      | 6. $30 \times 1$      | 7. $41 \times 10^0$    | 8. $90 \times 10^0$     |
| $89 \times 10$        | $30 \times 10$        | $41 \times 10^1$       | $90 \times 10^1$        |
| $89 \times 100$       | $30 \times 100$       | $41 \times 10^2$       | $90 \times 10^2$        |
| $89 \times 1,000$     | $30 \times 1,000$     | $41 \times 10^3$       | $90 \times 10^3$        |
| $89 \times 10,000$    | $30 \times 10,000$    | $41 \times 10^4$       | $90 \times 10^4$        |
| 9. $4 \times 10^3$    | 10. $85 \times 100$   | 11. $16 \times 10^2$   | 12. $10^3 \times 38$    |
| 13. $52 \times 10^5$  | 14. $4 \times 10^4$   | 15. $29 \times 10,000$ | 16. $10 \times 6,837$   |
| 17. $1,000 \times 10$ | 18. $10^1 \times 615$ | 19. $250 \times 10^0$  | 20. $382 \times 10,000$ |
| 21. $1,000 \times 57$ | 22. $80 \times 10^3$  | 23. $10^3 \times 374$  | 24. $194 \times 100$    |



## Homework & Practice 3-1

### Multiply Greater Numbers by Powers of 10

#### Another Look!

Patterns can help you multiply by powers of 10.

$$53 \times 1 = 53$$

$$53 \times 10 = 530$$

$$53 \times 100 = 5,300$$

$$53 \times 1,000 = 53,000$$

$$53 \times 10,000 = 530,000$$

$$70 \times 10^0 = 70$$

$$70 \times 10^1 = 700$$

$$70 \times 10^2 = 7,000$$

$$70 \times 10^3 = 70,000$$

$$70 \times 10^4 = 700,000$$

Look at the number of zeros or the exponent for the power of 10. Annex that number of zeros to the other factor.



1. To find  $61 \times 1,000$ , annex \_\_\_\_\_ zeros to \_\_\_\_\_ to form the product \_\_\_\_\_.

2. To find  $20 \times 10^4$ , annex \_\_\_\_\_ zeros to \_\_\_\_\_ to form the product \_\_\_\_\_.

In 3–6, use patterns to find each product.

3.  $75 \times 1$

$$75 \times 10$$

$$75 \times 100$$

$$75 \times 1,000$$

$$75 \times 10,000$$

4.  $50 \times 1$

$$50 \times 10$$

$$50 \times 100$$

$$50 \times 1,000$$

$$50 \times 10,000$$

5.  $60 \times 10^0$

$$60 \times 10^1$$

$$60 \times 10^2$$

$$60 \times 10^3$$

$$60 \times 10^4$$

6.  $18 \times 10^0$

$$18 \times 10^1$$

$$18 \times 10^2$$

$$18 \times 10^3$$

$$18 \times 10^4$$

In 7–18, find each product.

7.  $84 \times 100$

8.  $90 \times 10$

9.  $54 \times 10^2$

10.  $10^3 \times 12$

11.  $72 \times 10^5$

12.  $278 \times 1,000$

13.  $36 \times 10^4$

14.  $10^2 \times 539$

15.  $4 \times 10^1$

16.  $3,510 \times 10^0$

17.  $100 \times 17$

18.  $102 \times 10^4$

## ☆ Guided Practice ☆

### Do You Understand?

1. **MP.7 Use Structure** A theater can seat 540 people at one time. How many tickets are sold if the theater sells out every seat for one 30-day month?
2. **Number Sense** Is  $500 \times 30$  a good estimate for the number of tickets sold at the theater in one month?

### Do You Know How?

In 3–6, find each product. Estimate to check that your answer is reasonable.

$$\begin{array}{r} 3. \quad 236 \\ \times 46 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 61 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 951 \\ \times 62 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 185 \\ \times 5 \\ \hline \end{array}$$

## ☆ Independent Practice ☆

**Leveled Practice** In 7–22, find each product. Estimate to check that your answer is reasonable.

$$\begin{array}{r} 7. \quad 51 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 892 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 946 \\ \times 33 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 735 \\ \times 41 \\ \hline \end{array}$$

$$11. 25 \times 100$$

$$12. 81 \times 11$$

$$13. 106 \times 7$$

$$14. 90 \times 59$$

$$15. 18 \times 360$$

$$16. 75 \times 222$$

$$17. 481 \times 35$$

$$18. 659 \times 17$$

$$19. 340 \times 89$$

$$20. 439 \times 22$$

$$21. 273 \times 9$$

$$22. 64 \times 475$$

## Homework & Practice 3-3

### Multiply 3-Digit by 2-Digit Numbers

### Another Look!

Last year, 23 students in fifth grade were assigned a kindergarten student as a reading buddy. Each student read for 1 hour during each reading session and for a total of 128 sessions. How many hours in all did the fifth-grade students read?



Estimate: 130 times 20 is 2,600

#### Step 1

Multiply by the ones.  
Regroup as needed.

$$\begin{array}{r} 128 \\ \times 23 \\ \hline 384 \\ + 2,560 \\ \hline 2,944 \end{array}$$

#### Step 2

Multiply by the tens.  
Regroup as needed.

$$\begin{array}{r} 128 \\ \times 20 \\ \hline 2,560 \end{array}$$

#### Step 3

Add the partial products.

The fifth-grade students read for 2,944 hours in all. The answer is reasonable because it is close to the estimate.

In 1–10, find each product. Estimate to check that your answer is reasonable.

1. 
$$\begin{array}{r} 282 \\ \times 19 \\ \hline \end{array}$$

← Multiply by the ones.  
← Multiply by the tens.  
← Add the partial products.

2. 
$$\begin{array}{r} 538 \\ \times 46 \\ \hline \end{array}$$

← Multiply by the ones.  
← Multiply by the tens.  
← Add the partial products.

3. 
$$\begin{array}{r} 395 \\ \times 76 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 83 \\ \times 57 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 628 \\ \times 33 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 154 \\ \times 35 \\ \hline \end{array}$$

7.  $682 \times 25$

8.  $324 \times 71$

9.  $158 \times 6$

10.  $16 \times 29$