

# Fifth Grade Math Academic Packet



Week 1  
March 30-April 3, 2020

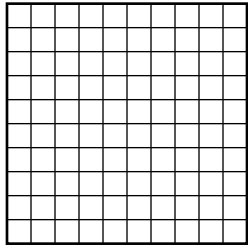
# Fifth Grade Recommended Pacing

<u>Day</u>	<u>Skill</u>	<u>Page</u>
Monday	Understanding of Place Value Understanding Powers of 10	4-5
Tuesday	Reading a Decimal in Word Form Writing a Decimal in Standard Form	6-7
Wednesday	Comparing Decimal Rounding Decimals	8-9
Thursday	Multiplying Multi-Digit Whole Numbers Multiplying with the Standard Algorithm	10-11
Friday	Using Estimation and Area Models to Divide	12

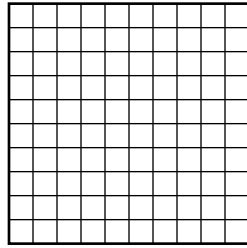
# Understanding of Place Value

Name: \_\_\_\_\_

- 1** The decimal grid in each model represents 1 whole. Shade each model to show the decimal number below the model.



**0.5**



**0.05**

Complete the comparison statements.

0.05 is \_\_\_\_\_ of 0.5.

0.5 is \_\_\_\_\_ times the value of 0.05.

Complete the equations.

$$0.5 \div \underline{\hspace{2cm}} = 0.05$$

$$0.05 \times \underline{\hspace{2cm}} = 0.5$$

- 2** Draw a number line from 0 to 2. Then draw and label points at 2 and 0.2.



Use the number line to explain why 2 is 10 times the value of 0.2.

Complete the equations to show the relationship between 2 and 0.2.

$$0.2 \times \underline{\hspace{2cm}} = 2$$

$$2 \div \underline{\hspace{2cm}} = 0.2$$

- 3** Which type of model do you like best? Explain why.

## Understanding Powers of 10

Name: \_\_\_\_\_

**Multiply or divide.**

**1**  $6 \div 10$   
\_\_\_\_\_

**2**  $0.6 \div 10$   
\_\_\_\_\_

**3**  $6 \div 10^2$   
\_\_\_\_\_

**4**  $0.6 \div 10^2$   
\_\_\_\_\_

**5**  $6 \div 10^3$   
\_\_\_\_\_

**6**  $60 \div 10^3$   
\_\_\_\_\_

**7**  $0.3 \times 10$   
\_\_\_\_\_

**8**  $0.3 \times 10^2$   
\_\_\_\_\_

**9**  $0.3 \times 10^3$   
\_\_\_\_\_

**10**  $0.03 \times 10^2$   
\_\_\_\_\_

**11**  $0.003 \times 10^2$   
\_\_\_\_\_

**12**  $0.03 \times 10^3$   
\_\_\_\_\_

**13**  $72 \div 10$   
\_\_\_\_\_

**14**  $0.72 \times 10^2$   
\_\_\_\_\_

**15**  $7,200 \div 10^3$   
\_\_\_\_\_

**16**  $20 \div 10^2$   
\_\_\_\_\_

**17**  $0.9 \times 10^3$   
\_\_\_\_\_

**18**  $0.001 \times 10^2$   
\_\_\_\_\_

**19**  $54 \div 10$   
\_\_\_\_\_

**20**  $150 \div 10^3$   
\_\_\_\_\_

**21**  $0.46 \times 10^3$   
\_\_\_\_\_

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

## Reading a Decimal in Word Form

Name: \_\_\_\_\_

**What is the word form of each decimal?**

**1** 0.2

\_\_\_\_\_

**2** 0.02

\_\_\_\_\_

**3** 0.002

\_\_\_\_\_

**4** 0.12

\_\_\_\_\_

**5** 0.012

\_\_\_\_\_

**6** 0.102

\_\_\_\_\_

**7** 1.002

\_\_\_\_\_

**8** 9.4

\_\_\_\_\_

**9** 90.04

\_\_\_\_\_

**10** 0.94

\_\_\_\_\_

**11** 500.2

\_\_\_\_\_

**12** 8.008

\_\_\_\_\_

**13** 700.06

\_\_\_\_\_

**14** 6.335

\_\_\_\_\_

**15** 3,000.001

\_\_\_\_\_

**16** What strategies did you use to help you read the decimals? Explain.

## Writing a Decimal in Standard Form

Name: \_\_\_\_\_

**What decimal represents each number?**

**1** one and six tenths

\_\_\_\_\_

**2** eight and eleven hundredths

\_\_\_\_\_

**3**  $6 \times 1 + 5 \times \frac{1}{10}$

\_\_\_\_\_

**4** thirteen and thirteen thousandths

\_\_\_\_\_

**5**  $2 \times 10 + 7 \times \frac{1}{10} + 3 \times \frac{1}{100}$

\_\_\_\_\_

**6**  $4 \times 1 + 1 \times \frac{1}{100} + 9 \times \frac{1}{1,000}$

\_\_\_\_\_

**7** five hundred twelve thousandths

\_\_\_\_\_

**8**  $8 \times 100 + 2 \times \frac{1}{10} + 8 \times \frac{1}{1,000}$

\_\_\_\_\_

**9**  $2 \times 1 + 4 \times \frac{1}{100}$

\_\_\_\_\_

**10** forty-two and forty-one hundredths

\_\_\_\_\_

**11**  $7 \times 100 + 2 \times 10 + 3 \times 1 + 6 \times \frac{1}{10}$

\_\_\_\_\_

**12** twelve and sixty-eight thousandths

\_\_\_\_\_

**13**  $3 \times 1,000 + 6 \times 100 + 3 \times 10 + 7 \times \frac{1}{10} + 2 \times \frac{1}{100} + 8 \times \frac{1}{1,000}$

\_\_\_\_\_

**14** nine hundred fifty-six and four hundred twenty-seven thousandths

\_\_\_\_\_

**15** How was writing decimals for numbers in word form different from numbers in expanded form?

## Comparing Decimals

Name: \_\_\_\_\_

Write the symbol  $<$ ,  $=$ , or  $>$  in each comparison statement.

1  $0.02$  \_\_\_\_\_  $0.002$

2  $0.05$  \_\_\_\_\_  $0.5$

3  $0.74$  \_\_\_\_\_  $0.84$

4  $0.74$  \_\_\_\_\_  $0.084$

5  $1.2$  \_\_\_\_\_  $1.25$

6  $5.130$  \_\_\_\_\_  $5.13$

7  $3.201$  \_\_\_\_\_  $3.099$

8  $0.159$  \_\_\_\_\_  $1.590$

9  $8.269$  \_\_\_\_\_  $8.268$

10  $4.60$  \_\_\_\_\_  $4.060$

11  $302.026$  \_\_\_\_\_  $300.226$

12  $0.237$  \_\_\_\_\_  $0.223$

13  $3.033$  \_\_\_\_\_  $3.303$

14  $9.074$  \_\_\_\_\_  $9.47$

15  $6.129$  \_\_\_\_\_  $6.19$

16  $567.45$  \_\_\_\_\_  $564.75$

17  $78.967$  \_\_\_\_\_  $78.957$

18  $5.346$  \_\_\_\_\_  $5.4$

19  $12.112$  \_\_\_\_\_  $12.121$

20  $26.2$  \_\_\_\_\_  $26.200$

21  $100.32$  \_\_\_\_\_  $100.232$

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

# Rounding Decimals

Name: \_\_\_\_\_

**Round each decimal to the nearest tenth.**

**1** 0.32

\_\_\_\_\_

**2** 3.87

\_\_\_\_\_

**3** 0.709

\_\_\_\_\_

**4** 12.75

\_\_\_\_\_

**5** 12.745

\_\_\_\_\_

**6** 645.059

\_\_\_\_\_

**Round each decimal to the nearest hundredth.**

**7** 1.079

\_\_\_\_\_

**8** 0.854

\_\_\_\_\_

**9** 0.709

\_\_\_\_\_

**10** 12.745

\_\_\_\_\_

**11** 645.059

\_\_\_\_\_

**12** 50.501

\_\_\_\_\_

**Round each decimal to the nearest whole number.**

**13** 1.47

\_\_\_\_\_

**14** 12.5

\_\_\_\_\_

**15** 200.051

\_\_\_\_\_

**16** Write two different decimals that are the same value when rounded to the nearest tenth. Explain why the rounded values are the same.

**17** Round 1.299 to the nearest tenth and to the nearest hundredth. Explain why the rounded values are equivalent.



# Multiplying Multi-Digit Whole Numbers

Name: \_\_\_\_\_

**Estimate. Circle all the problems with products between 3,000 and 9,000. Then find the exact products of only the problems you circled.**

**1** 
$$\begin{array}{r} 132 \\ \times 34 \\ \hline \end{array}$$

**2** 
$$\begin{array}{r} 247 \\ \times 15 \\ \hline \end{array}$$

**3** 
$$\begin{array}{r} 145 \\ \times 23 \\ \hline \end{array}$$

**4** 
$$\begin{array}{r} 308 \\ \times 12 \\ \hline \end{array}$$

**5** 
$$\begin{array}{r} 158 \\ \times 41 \\ \hline \end{array}$$

**6** 
$$\begin{array}{r} 364 \\ \times 32 \\ \hline \end{array}$$

**7** 
$$\begin{array}{r} 400 \\ \times 29 \\ \hline \end{array}$$

**8** 
$$\begin{array}{r} 254 \\ \times 17 \\ \hline \end{array}$$

**9** 
$$\begin{array}{r} 187 \\ \times 42 \\ \hline \end{array}$$

**10** 
$$\begin{array}{r} 216 \\ \times 12 \\ \hline \end{array}$$

**11** 
$$\begin{array}{r} 323 \\ \times 18 \\ \hline \end{array}$$

**12** 
$$\begin{array}{r} 194 \\ \times 26 \\ \hline \end{array}$$

**13** 
$$\begin{array}{r} 317 \\ \times 14 \\ \hline \end{array}$$

**14** 
$$\begin{array}{r} 385 \\ \times 31 \\ \hline \end{array}$$

**15** 
$$\begin{array}{r} 285 \\ \times 27 \\ \hline \end{array}$$

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

# Multiplying with the Standard Algorithm

Name: \_\_\_\_\_

The answers are mixed up at the bottom of the page. Cross out the answers as you complete the problems.

$$\begin{array}{r} \mathbf{1} \quad 580 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{2} \quad 3,104 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{3} \quad 1,482 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{4} \quad 1,085 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{5} \quad 1,236 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{6} \quad 1,625 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{7} \quad 2,105 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{8} \quad 1,788 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{9} \quad 2,500 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{10} \quad 648 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{11} \quad 2,409 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{12} \quad 306 \\ \times 62 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{13} \quad 2,417 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{14} \quad 650 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{15} \quad 962 \\ \times 44 \\ \hline \end{array}$$

## Answers

20,736	17,400	27,365	47,500	55,872
18,972	18,445	26,820	67,980	56,316
22,750	29,250	55,407	42,328	58,008

## Using Estimation and Area Models to Divide

Name: \_\_\_\_\_

**Check each answer by multiplying the divisor by the quotient. If the answer is incorrect, cross out the answer and write the correct answer.**

Division Problems	Student Answers
$516 \div 12$	<del>48</del> 43      Check: $12 \times 48 = 576$
$837 \div 31$	27
$351 \div 13$	57
$918 \div 54$	22
$896 \div 32$	23
$1,482 \div 78$	14
$1,012 \div 11$	82
$1,344 \div 56$	24

- 1** Explain how you could know that the answers to two of the problems are incorrect without multiplying.