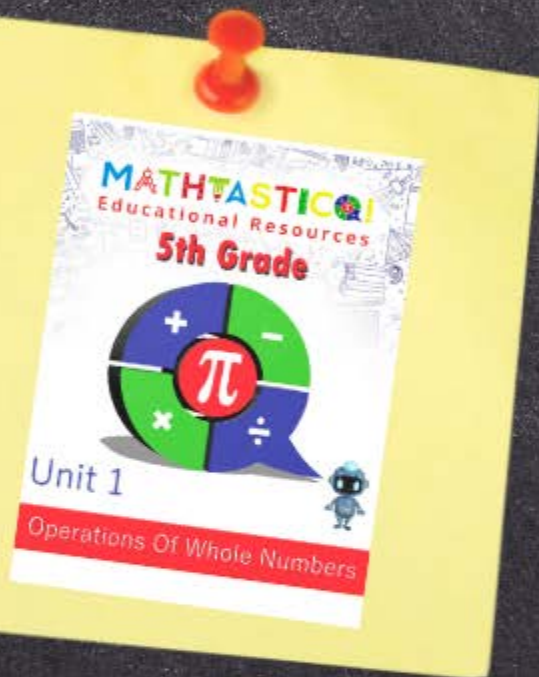


# MATH BUNDLE!

## 5th Grade Unit 1



**4.30 E.10** **LEVEL 1: OPERATIONS OF WHOLE NUMBERS** **LEVEL 2**

**The Largest Tile**

The game is for two players. Each player will need a die, a colored set of game pieces, and a paper clip to use as a spinner. Each die is assigned a number in the table below. Each winner of the game when play has a number, each player will need to find the product of the numbers from the table and game wheel on the gameboard. The time limit is 10 minutes. The player with the most game pieces arranged in a continuous path on the gameboard at the end will be the winner.

Follow the instructions to play the game:

1. Roll your die, paper, spinner. The winner will get the first turn.
2. On your turn, roll the die to get the first factor and spin the paper clip on the game wheel to get the second factor.
3. Find the product of these two factors on the gameboard and place your game piece on that tile.
4. You cannot place a game piece on a tile that has already been claimed.
5. If your piece is correct, you can claim the tile. If it is incorrect, your turn is skipped.

| Die | Factor |
|-----|--------|
| 1   | 145    |
| 2   | 187    |
| 3   | 456    |
| 4   | 305    |
| 5   | 746    |
| 6   | 254    |

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**4.16 E.10** **LEVEL 1: OPERATIONS OF WHOLE NUMBERS** **LEVEL 2**

**PRE-ASSESSMENT**

1. Kelly baked 18 loaves of cookies and packed them in small bags.

- Each batch has 25 cookies.
- She placed 3 cookies in each bag.

How many bags did Kelly use?

2. There are 12 rows of advertisements being given on a bus. There are 8 advertisements in each row. Mr. Chavez will use 3 buses to take all of the advertisements to the market. He will place the same number of advertisements in each bus.

How many advertisements will be placed in each bus?

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**4.34** **LEVEL 1: OPERATIONS OF WHOLE NUMBERS** **LEVEL 2**

**PRE-ASSESSMENT**

For questions 1-4, write in the problem below the amounts used by the supermarket to buy kitchen utensils. The prices of utensils are listed below.

Calculator \$11    Pressure Cooker \$87    Cooking Pan \$28    Ladle \$6

1. About how many dollars can she buy with \$20?
2. If Mrs. Roberts wants to buy 3 cooking pans, about how much money does she need?
3. What is the total amount of the total because Mrs. Robert needs to buy a pressure cooker, a pan, two cooking pans, and 3 ladles?

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**4.36** **LEVEL 1: OPERATIONS OF WHOLE NUMBERS** **LEVEL 2**

**SKILL BUILDING**

1. A total of 275 students signed up for summer camp. The students will be divided into small groups with approximately 12 members in each group.

About how many groups of students can be formed? Use compatible numbers to estimate the answer.

2. Madison received \$120 from the gymnas. She used it to buy a shirt for \$6, two sweaters for \$17 each, and a pair of pants for \$24. She spent the rest of her money on dance pants.

About how much money did Madison spend on dance pants? Round the numbers to the nearest ten to estimate the answer.

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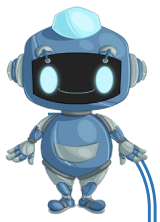
- GAMES
- PRE-ASSESSMENTS
- GUIDED PRACTICE
- HOMEWORK LESSONS
- INDEPENDENT PRACTICE
- CHECKPOINTS
- ASSESSMENT
- SPIRAL REVIEW



# UNIT 1

## OPERATIONS OF WHOLE NUMBERS

# 5<sup>th</sup> GRADE



### OBJECTIVE/GOAL

To **add**, **subtract**, **multiply**, and **solve** with proficiency for quotients of up to a four-digit by two-digit divisor and to **estimate** to determine solutions to mathematical and real-world problems

### TARGET STANDARD

**5.3K** add and subtract positive rational numbers fluently

**5.3B** multiply with fluency a three-digit number by a two-digit number using the standard algorithm

**5.3C** solve with proficiency for quotients of up to a four-digit by two-digit divisor using strategies and the standard algorithm

**5.3A** estimate to determine solutions to mathematical and real-world problems involving addition, subtraction, multiplication, or division

### VOCABULARY

- Positive Rational Numbers
- Difference
- Sum
- Dividend
- Divisible
- Divisor
- Factor
- Product
- Quotient
- Estimate
- Round

### QUESTIONS TO GUIDE YOUR THINKING

- What strategies do you use to determine the operations to be used in a problem?
- How does understanding of place value help in multiplying and dividing numbers using the standard algorithm?
- How important are estimations in real life situations?

### TRACK YOUR ACCOMPLISHMENTS



CHECKPOINT 1



CHECKPOINT 2



CHECKPOINT 3








UNIT ASSESSMENT



### Catch the Alien

This game is for two players. Each player should have a set of game pieces (one color for each player). The goal of this game is to capture the aliens by surrounding them with game pieces. Play rock, paper, scissors, the winner will get the first turn. On each turn, the players will choose an expression, then find the matching sum/difference and place a game piece on both tiles. The player that captures the most aliens wins the game.

|                 |   |                  |   |               |  |               |
|-----------------|---|------------------|---|---------------|--|---------------|
| $8,975 - 1,235$ |   | $5,400 + 8,876$  |   | $12,890 - 43$ |  | 15,865        |
|                 | 10,590  |                  | 113   |               | 950  |               |
| 3,830           |    | $932 - 450$      |   | 47,200        |    | $9,043 - 900$ |
| $8,547 - 4,900$ |   | $14,865 + 1,000$ | 821   | $525 + 120$   |  | 482           |
|                 | 24  |                  |  |               | 506  |               |
| $7,000 - 1,500$ |   | 1,155            |   | 7,740         |  | 14,276        |
|                 | $2,580 + 3,060$   |                  | $745 + 205$   |               | $1,235 - 80$   |               |
| 8,143           |  | $3,790 + 6,800$  |   | 527           |  | 480           |
| $309 + 512$     |   | $539 - 12$       | 12,847  |               |  | $50 - 26$     |
|                 | 645   |                  | $7,430 - 3,600$   |               | $12,700 + 34,500$  |               |
| $129 + 377$     |   | 5,500            |   | $23 + 90$     |  | 3,647         |
|                 |   |                  |   |               |  | 6,576         |





## PRE-ASSESSMENT

- 1 Ruby baked 10 batches of cookies and packed them in small bags.
- Each batch has 15 cookies.
  - She placed 5 cookies in each bag.

How many bags did Ruby use?

Record your answer in the griddable. Make sure to use the correct place value.

|   |   |   |
|---|---|---|
|   |   |   |
| 0 | 0 | 0 |
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |
| 7 | 7 | 7 |
| 8 | 8 | 8 |
| 9 | 9 | 9 |



- 2 There are 18 rows of watermelons being grown on a farm. There are 8 watermelons in each row. Mr. Chavez will use 3 trucks to take all of the harvested watermelons to the market. He will place the same number of watermelons in each truck.
- How many watermelons will he place in each truck?

Record your answer in the griddable. Make sure to use the correct place value.

|   |   |   |
|---|---|---|
|   |   |   |
| 0 | 0 | 0 |
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |
| 7 | 7 | 7 |
| 8 | 8 | 8 |
| 9 | 9 | 9 |



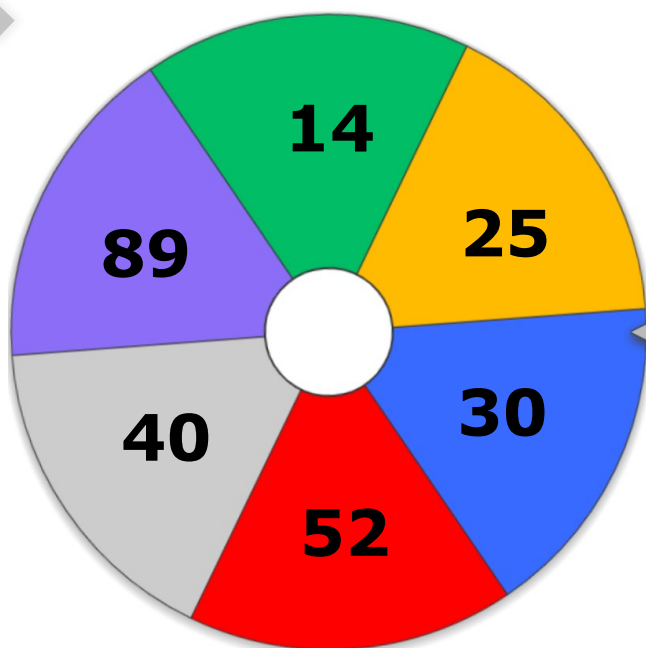
### The Longest Tail

This game is for two players. Each player will need a die, a colored set of game pieces, and a paper clip to use as a spinner. Each die roll is assigned a number in the table below. Each segment on the game wheel also has a number. Each player will need to find the product of the numbers from the table and game wheel on the gameboard. The time limit is 10 minutes. The player with the most game pieces arranged in a continuous path on the gameboard at the end will be the winner.

Follow the instructions to play the game:

1. Play rock, paper, scissors. The winner will get the first turn.
2. On your turn, roll the die to get the first factor and spin the paper clip on the game wheel to get the second factor.
3. Find the product of these two factors on the gameboard and place your game piece on that tile.
4. You cannot place a game piece on a tile that has already been claimed.
5. If your answer is correct, you can claim the tile, if it is incorrect, your turn is skipped.

| Dice     | x   |
|----------|-----|
| <b>1</b> | 145 |
| <b>2</b> | 187 |
| <b>3</b> | 456 |
| <b>4</b> | 305 |
| <b>5</b> | 746 |
| <b>6</b> | 254 |



**The Longest Tail Gameboard**

|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| 2,030  | 3,625  | 12,905 | 4,350  | 5,800  | 7,540  |
| 7,625  | 3,556  | 7,620  | 22,606 | 13,208 | 10,160 |
| 2,618  | 4,675  | 16,643 | 5,610  | 7,480  | 9,724  |
| 18,650 | 10,444 | 22,380 | 66,394 | 38,792 | 29,840 |
| 6,384  | 11,400 | 40,584 | 13,680 | 18,240 | 23,712 |
| 6,350  | 4,270  | 9,150  | 27,145 | 15,860 | 12,200 |



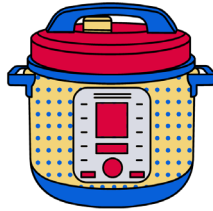
## PRE-ASSESSMENT

For questions 1-4, refer to the problem below.

Mrs. Roberts went to the supermarket to buy kitchen utensils. The prices of utensils are listed below.



Grater  
\$11



Pressure Cooker  
\$67

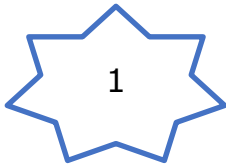


Cooking Pan  
\$18

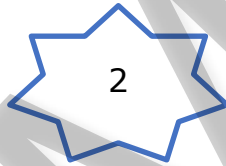


Ladle  
\$6

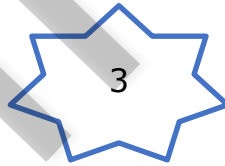
- 1 About how many ladles can she buy with \$20?



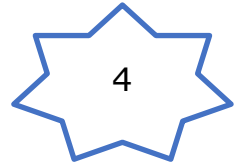
1



2



3



4

- 2 If Mrs. Roberts wants to buy 5 cooking pans, about how much money does she need?



\$50



\$60



\$80



\$100

- 3 What is the best estimate of the total amount Mrs. Robert needs to buy a pressure cooker, a grater, five cooking pans, and 3 ladles?



\$180



\$200



\$220



\$250



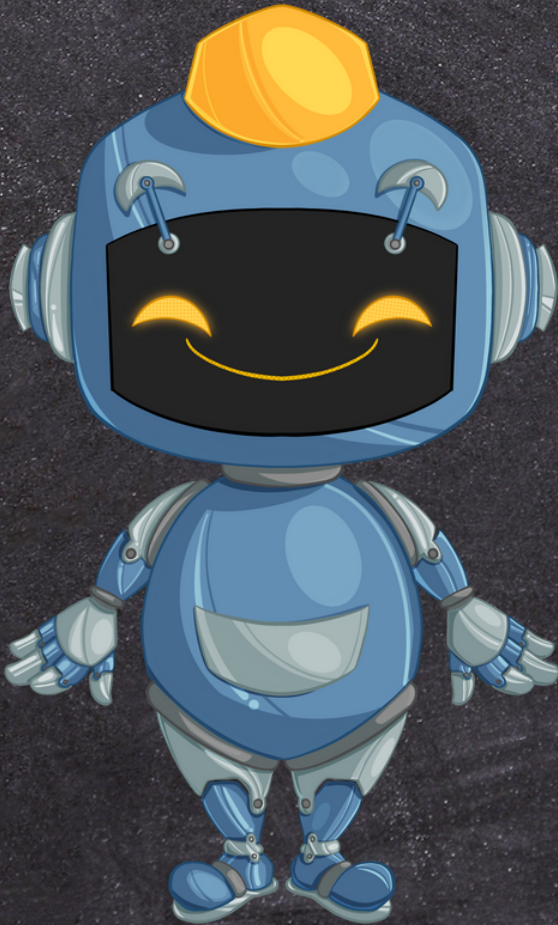
4.4G



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| 5.1B | Identifying Rock Resources |            |                    |                     |
| 5.1C | Identifying Rock Resources |            |                    |                     |
| 5.1D | Identifying Rock Resources |            |                    |                     |

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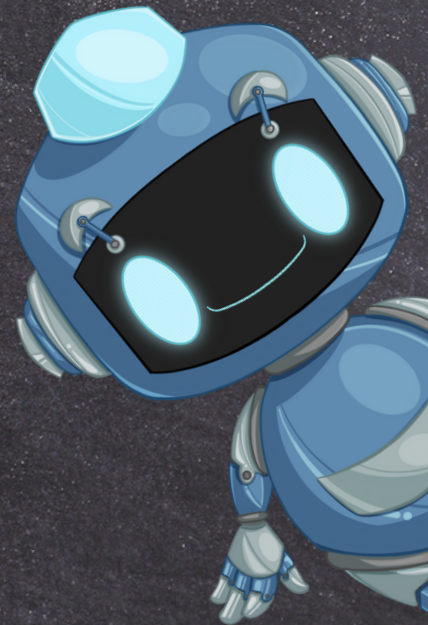
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| TEK  | Topic                              | Answer Key | STAAR 2.0 Activity | Instructional Video |
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| 5.8B | Ecological Energy & Matter Cycling |            |                    |                     |
| 5.8C | Ecological Energy & Matter Cycling |            |                    |                     |
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