

## 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

**MATH.5.2A** Represent the value of the digit in decimals through the thousandths using expanded notation and numerals.

- 5** A bank received a check for two thousand, six hundred nine dollars and seventy-five cents. How is this number written in expanded notation?
- A**  $(2 \times 1,000) + (6 \times 100) + (9 \times 10) + (7 \times 0.01) + (5 \times 0.01)$
- B**  $(2 \times 1,000) + (6 \times 100) + (9 \times 1) + (7 \times 0.1) + (5 \times 0.01)$
- C**  $(2 \times 1,000) + (6 \times 10) + (9 \times 1) + (7 \times 1) + (5 \times 1)$
- D**  $(2 \times 1,000) + (6 \times 100) + (9 \times 1) + (7 \times 0.01) + (5 \times 0.001)$

Copyright © 2016 by TEA. All rights reserved. No part of this publication may be reproduced without prior written permission from TEA.

\*Correct Answer (B)

Released 2016 Sample Q5

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.



**Question Type**

MC – Multiple Choice  
CR – Constructed Response (Rubric)  
NR – Numeric Response (Griddable)

## 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

® **MATH.5.2B** Compare and order two decimals to thousandths and represent comparisons using the symbols  $>$ ,  $<$ , or  $=$ .

**8** The table shows the time in seconds it took four swimmers to complete a race.

Race Times				
Swimmer	One	Two	Three	Four
Time (seconds)	26.15	26.5	26.1	26.05

Which inequality correctly compares two of these race times?

- F**  $26.5 > 26.05$
- G**  $26.15 > 26.5$
- H**  $26.1 < 26.05$
- J**  $26.15 < 26.1$

Question from OTIS, please do not write with pen or pencil

**23** Joshua compared the values of these decimals.

0.06      0.6      0.006      0.060

Which statement correctly compares two of these numbers?

- A**  $0.6 < 0.06$
- B**  $0.006 > 0.6$
- C**  $0.6 = 0.06$
- D**  $0.060 = 0.06$

Question from OTIS, please do not write with pen or pencil

\*Correct Answer (F)

Released 2016 STAAR Test Q8

\*Correct Answer (D)

Released 2016 STAAR Test Q23

**34** Books in a library are arranged by their Dewey decimal number. The Dewey decimal numbers for five books are shown in the picture.



Lana will put these five books in order from the least number to the greatest number. Which book will be in the fourth position?

- F** 419.018
- G** 417.97
- H** 418.537
- J** 418.63

Question from OTIS, please do not write with pen or pencil

\*Correct Answer (J)

Released 2016 STAAR Test Q34

**1** The table shows the masses of four rocks.

Rocks	
Rock	Mass (kg)
S	0.429
T	0.438
U	0.43
V	0.483

Which number sentence correctly compares the masses of two of the rocks?

- A**  $0.429 > 0.438$
- B**  $0.438 < 0.483$
- C**  $0.429 > 0.43$
- D**  $0.438 = 0.43$

Question from OTIS, please do not write with pen or pencil

\*Correct Answer (B)

Released 2015 STAAR Sample Q1

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.

## 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

⑤ **MATH.5.2C** Round decimals to tenths or hundredths.

What is 0.64 rounded to the tenths place?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

Question from ©TEA release tests with permission

\*Correct Answer (0.6)

Released 2019 STAAR Test Q6

**18** Mr. Ávalos has 9.375 liters of paint. What is this number rounded to the nearest hundredth?

**F** 9.40

**G** 9.38

**H** 9.37

**J** 9.47

Question from ©TEA release tests with permission

\*Correct Answer (G)

Released 2013 STAAR Test Q15

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.

### GLOBAL GRADUATE



#### Question Type

MC – Multiple Choice

CR – Constructed Response (Rubric)

NR – Numeric Response (Griddable)

TEA New Item Types:

<https://bit.ly/3kBwrnL>

Question – Q

Page – p.

Questions – Qs

Pages – pp.

© Houston ISD Curriculum

2021-2022

Page 9 of 17

## 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

© **MATH.5.3B** Multiply with fluency a three-digit number by a two-digit number using the standard algorithm.

27 A company makes 625 cell phone cases each day. How many cell phone cases does the company make in 31 days?

- A 18,375
- B 1,490
- C 2,500
- D 19,375

Question from STAAR Math Grade 5 Item Bank

\*Correct Answer (D)  
Released 2016 STAAR Test Q27

2013 – Q15

Brennon has a total of 187 postage stamps.

- He has 48 stamps that are each 14 millimeters wide.
- He has 139 stamps that are each 12 millimeters wide.

What is the total width of these stamps?

- A 2,618 mm
- B 2,230 mm
- C 2,340 mm
- D 657 mm

Question from STAAR Math Grade 5 Item Bank

\*Correct Answer (C)  
Released 2013 STAAR Test Q15

2014 – Q26

An individual computer lab session at a school is 24 minutes long. On Monday 313 students each completed a session at the computer lab. What is the total number of minutes that all these students spent in the computer lab on Monday?

- F 337 min
- G 7,402 min
- H 1,878 min
- J Not here

Question from STAAR Math Grade 5 Item Bank

\*Correct Answer (J)  
Released 2014 STAAR Test Q26

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.

### GLOBAL GRADUATE



#### Question Type

MC – Multiple Choice  
CR – Constructed Response (Rubric)  
NR – Numeric Response (Griddable)

TEA New Item Types:  
<https://bit.ly/3kBwrnL>

Question – Q  
Page – p.

Questions – Qs  
Pages – pp.

© Houston ISD Curriculum  
2021-2022  
Page 10 of 17

## 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

© **MATH.5.3C** Solve with proficiency for quotients of up to a four-digit dividend by a two-digit divisor using strategies and the standard algorithm.

### 2013 – Q13

A gardener has 785 bricks to build a path in a garden. There will be 24 bricks in each row of the path. How many complete rows can the gardener make using 785 bricks?

- A 32
- B 17
- C 33
- D 65

Question from OTEA release with permission

\*Correct Answer (A)  
Released 2013 STAAR Test Q13

### 2014 – Q50

Wesley has 480 stamps in his collection. He puts these stamps into display cases. Each display case contains 15 stamps. How many display cases does Wesley need for his stamp collection?

- F 32
- G 212
- H 36
- J 465

Question from OTEA release with permission

\*Correct Answer (F)  
Released 2014 STAAR Test Q50

**33** Tara has a box of 908 beads for making bracelets. She wants to put 15 beads on each bracelet she makes. What is the greatest number of bracelets Tara can make with these beads?

- A 61
- B 70
- C 60
- D 68

Question from OTEA release with permission

\*Correct Answer (C)  
Released 2016 STAAR Test Q33

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.

## GLOBAL GRADUATE



### Question Type

MC – Multiple Choice  
CR – Constructed Response (Rubric)  
NR – Numeric Response (Griddable)

TEA New Item Types:  
<https://bit.ly/3kBwrnL>

Question – Q  
Page – p.

Questions – Qs  
Pages – pp.

© Houston ISD Curriculum  
2021-2022  
Page 11 of 17



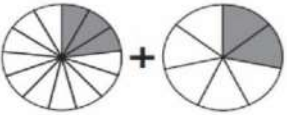
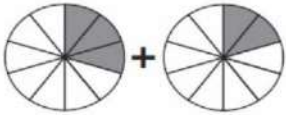
## 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

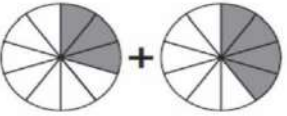
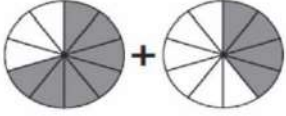
© **MATH.5.3H** Represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using objects and pictorial models and properties of operations.

2013 – 15

Which model is shaded to best represent the expression below?

$$\frac{3}{10} + \frac{2}{5}$$

A  C 


B  D 


Question from OTEA where test with permission


\*Correct Answer (B)  
Released 2013 STAAR Test Q15

2015 – Sample Q8

8 Mrs. Ali collected notebook paper from her students at the beginning of the school year. The model is shaded to show the fraction of this notebook paper that Mrs. Ali used in each of the three months.

First month 

Second month 

Third month 


What fraction of the notebook paper Mrs. Ali collected was used during these three months?


A  $\frac{3}{8}$   
B  $\frac{7}{8}$   
C  $\frac{3}{14}$   
D  $\frac{1}{8}$

Question from OTEA where test with permission

\*Correct Answer (B)  
Released 2015 STAAR Sample Q8

6 Cara and Marcus shared a candy bar. The models are shaded to show the fraction of the candy bar each of them ate.

Cara 

Marcus 

What fraction of the candy bar did Cara and Marcus eat altogether?

F  $\frac{11}{12}$   
G  $\frac{9}{16}$   
H  $\frac{1}{12}$   
J  $\frac{9}{24}$

Question from OTEA where test with permission

\*Correct Answer (F)  
Released 2016 STAAR Test Q6

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.

### GLOBAL GRADUATE



#### Question Type

MC – Multiple Choice  
CR – Constructed Response (Rubric)  
NR – Numeric Response (Griddable)

TEA New Item Types:  
<https://bit.ly/3kBwrnL>

Question – Q  
Page – p.

Questions – Qs  
Pages – pp.

© Houston ISD Curriculum  
2021-2022  
Page 12 of 17

# 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

® **MATH.5.3K** Add and subtract positive rational numbers fluently.

**18** Last month Jim drove his car 2,718.3 miles. That brought the car's total mileage to 87,416 miles. What was the car's total mileage before last month?

- F** 84,697.7 mi
- G** 85,302.7 mi
- H** 89,124.3 mi
- J** 90,134.3 mi

Question from OTIA release book with permission

\*Correct Answer (F)

Released 2016 STAAR Sample Q18

**10** The regular price of a calculator is \$12.30. Warren paid 75¢ less than the regular price for the calculator. He also paid \$1.48 for a pad of paper. What is the total amount Warren paid for these two items?

- A** \$13.03
- B** \$14.03
- C** \$14.53
- D** \$13.83

Question from OTIA release book with permission

\*Correct Answer (A)

Released 2015 STAAR Sample Q10

**35** Marsha bought a birthday card for \$2.86 and a pen for \$1.57. She paid with a \$20 bill. How much change should Marsha have received?

- A** \$15.57
- B** \$24.43
- C** \$17.77
- D** \$16.57

Question from OTIA release book with permission

\*Correct Answer (A)

Released 2016 STAAR Test Q35

**24** The table shows the population of three Texas counties. The population of Gray County is missing.

Population	
County	Population
Anderson	58,308
Dallas	2,416,014
Brazos	197,632
Gray	

The population of Gray County is 35,553 less than the population of Anderson County. What is the combined population of these four counties?

- F** 2,694,709
- G** 2,707,507
- H** 2,695,209
- J** 2,765,815

Question from OTIA release book with permission

\*Correct Answer (A)

Released 2016 STAAR Test Q24

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.



**Question Type**

MC – Multiple Choice  
CR – Constructed Response (Rubric)  
NR – Numeric Response (Griddable)

## 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

© **MATH.5.4A** Identify prime and composite numbers.

2013 – Q42

Luke made the list of numbers below.

40	41	42	43	44	45	46	47	48	49
----	----	----	----	----	----	----	----	----	----

How many of the numbers in Luke's list are prime numbers?

- F 3
- G 7
- H 10
- J 5

Question from OTIS, released with permission

\*Correct Answer (F)  
Released 2013 STAAR Test Q42

**20** Seth's homework assignment is to write factor pairs that contain only composite numbers. Seth wrote four factor pairs for the number 132, as shown below.

$$\begin{array}{l} 6 \times 22 \\ 11 \times 12 \\ 3 \times 44 \\ 2 \times 66 \end{array}$$

Which of Seth's factor pairs contains only composite numbers?

- F  $6 \times 22$
- G  $11 \times 12$
- H  $3 \times 44$
- J  $2 \times 66$

Question from OTIS, released with permission

\*Correct Answer (F)  
Released 2016 STAAR Test Q20

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.



**Question Type**

MC – Multiple Choice  
CR – Constructed Response (Rubric)  
NR – Numeric Response (Griddable)



## 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

® **MATH.5.4B** Represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.

### 2015 – Sample Q12

**12** Pedro ordered 24 boxes of baseballs. Each box contained 16 baseballs. Pedro used 8 of these baseballs during a game. Which equation can be used to find  $b$ , the total number of these baseballs that Pedro did not use during the game?

- A  $b = (24 + 16) - 8$
- B  $b = (24 \times 16) - 8$
- C  $b = (24 - 16) \div 8$
- D  $b = (24 \times 16) + 8$

Question Item OT1A, please test with permission

\*Correct Answer (B)  
Released 2015 STAAR Sample Q12

### 2014 – 40

Nola had 124 sheets of colored paper.

- She used 20 sheets to make a picture.
- She used all the remaining sheets to make 4 posters.
- She used the same number of sheets to make each poster.

Which equation can be used to find  $n$ , the number of sheets of colored paper Nola used to make each poster?

- F  $(124 + 20) \times 4 = n$
- G  $(124 - 20) \div 4 = n$
- H  $(124 - 20) \times 4 = n$
- J  $(124 + 20) \div 4 = n$

Question Item OT1A, please test with permission

Correct Answer (G)  
Released 2014 STAAR Test Q40

### 2014 – 7

Abe is buying taco shells for a party. There will be 13 adults and 17 children attending the party. He plans to make 3 tacos for each adult and 1 taco for each child. There are 8 taco shells in each package. What is the least number of packages of taco shells Abe will need to buy in order to have enough tacos for the people attending the party?

- A 7, because  $(13 \times 3 + 17) \div 8 = 7$
- B 28, because  $(13 \times 17 + 3) \div 8 = 28$
- C 80, because  $(13 + 17) \times 8 \div 3 = 80$
- D 8, because  $(13 + 17 \times 3) \div 8 = 8$

Question Item OT1A, please test with permission

\*Correct Answer (A)  
Released 2014 STAAR Test Q7, Grade 7

**14** Mr. Anderson had 185 pieces of wood. He sold 25 pieces of wood to his neighbor and stacked the rest of the wood into piles around his house. Each pile of wood contained 40 pieces of wood. Which equation can be used to find  $p$ , the number of piles of wood Mr. Anderson made?

- F  $p = (185 + 25) + 40$
- G  $p = (185 - 25) - 40$
- H  $p = (185 + 25) \times 40$
- J  $p = (185 - 25) \div 40$

Question Item OT1A, please test with permission

\*Correct Answer (J)  
Released 2016 STAAR Test Q14

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.



#### Question Type

MC – Multiple Choice  
CR – Constructed Response (Rubric)  
NR – Numeric Response (Griddable)

## 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

© **MATH.5.4E** Describe the meaning of parentheses and brackets in a numeric expression.

Jacob wrote the expression shown.

$$10 \div 5 + 4(72 - 6)$$

What do these parentheses indicate in the expression?

- F** Divide 10 by 5 before adding 4
- G** Multiply 4 by 72 before subtracting 6
- H** Add 5 and 4 together before subtracting 6 from 72
- J** Subtract 6 from 72 before multiplying by 4

OVERVIEW FROM Q115, RELEASED WITH STAAR PERMISSION

\*Correct Answer (J)  
Released 2019 STAAR Q8

**2** An expression is given.

$$3 \times (8 + 2) \div 2$$

Which statement is true about the parentheses in this expression?

- A** The parentheses indicate that  $8 + 2$  should be solved first.
- B** The parentheses indicate that  $8 + 2$  should be solved last.
- C** The parentheses indicate that  $2 \div 2$  should be solved last.
- D** The parentheses indicate that  $3 \times 8$  should be solved first.

OVERVIEW FROM Q115, RELEASED WITH STAAR PERMISSION

\*Correct Answer (A)  
Released 2015 STAAR Sample Q2

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.



**Question Type**

MC – Multiple Choice  
CR – Constructed Response (Rubric)  
NR – Numeric Response (Griddable)

## 2021-2022 FALL DISTRICT SNAPSHOT 1 OUTLINE

® **MATH.5.4F** Simplify numerical expressions that do not involve exponents, including up to two levels of grouping.

**16** Margaret opened a new case of lightbulbs.

- The case contained 3 boxes of lightbulbs with 8 lightbulbs in each box.
- Margaret threw 2 of these lightbulbs in the trash because they were damaged.
- Then she took 7 of the lightbulbs out of the case.

Which expression can be used to show that there are 15 lightbulbs still in the case?

- F**  $3 \times 8 - 2 + 7$
- G**  $3(8) - 2(7)$
- H**  $3 \times 8 - (2 + 7)$
- J**  $3 + 8 - 2 + 7$

\*Correct Answer (H)  
Released 2017 STAAR Q16

**49** What is the value of this expression?

$$[45 - (6 + 3)] \times 27$$

- A** 1,134
- B** 972
- C** 198
- D** 1,206

\*Correct Answer (B)  
Released 2016 STAAR Q49

**12** What is the value of the expression shown?

$$4[4.5 - 2(1.2)]$$

- F** 8.4
- G** 15.6
- H** 12
- J** 19.2

Correct Answer (F)  
Released 2018 STAAR Test Q12

**25** At a clothing store, Zoey bought 2 shirts for \$7.25 each and 2 pairs of jeans for \$24 each. She used a coupon for \$10 off the total price of the clothes. The discounted price of the clothes Zoey bought can be found using this expression.

$$[2(7.25) + 2(24)] - 10$$

What is the discounted price in dollars and cents of the clothes Zoey bought?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

\*Correct Answer (52.5)  
Released 2016 STAAR Test Q25

Source: Texas Education Agency STAAR Released Test Questions

<http://www.tea.state.tx.us/>  
<http://lead4ward.com/resources/>

<sup>1</sup> Levels of rigor are based on [Webb's Depths of Knowledge](https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/). For further information, see <https://www.weteachnyc.org/resources/resource/webbs-depth-knowledge-dok-levels/>.

### GLOBAL GRADUATE



#### Question Type

MC – Multiple Choice  
CR – Constructed Response (Rubric)  
NR – Numeric Response (Griddable)

TEA New Item Types:  
<https://bit.ly/3kBwrnL>

Question – Q  
Page – p.

Questions – Qs  
Pages – pp.

© Houston ISD Curriculum  
2021-2022  
Page 17 of 17