

Houston ISD



Test Booklet 21-22_HISD_DLA_G5_MTH_E_Dec6-17

Name
Answer Key.

Date



1. An expression is given.

$$7 \times (9 \div 3) + 5$$

Which statement is true about the parentheses in this expression?

- **A.** The parentheses indicate that 7×9 should be solved first.
- **B.** The parentheses indicate that $9 \div 3$ should be solved last.
- **C.** The parentheses indicate that 3 + 5 should be solved last.
- **D.**) The parentheses indicate that $9 \div 3$ should be solved first.



2. A chef opened a case of eggs.

- The case contained 6 cartons of eggs with a dozen eggs in each carton.
- The chef threw 5 eggs in the trash because they were broken.
- Then the chef used 14 eggs to make breakfast.

Which expression can be used to show that there are 53 eggs still in the case?

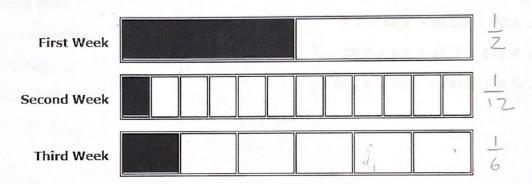
F.
$$6 \times 12 - 5 + 14$$

3. Daisy spent \$6.84 on four snow cones. She spent the same amount on each snow cone.

How much did Daisy spend on each snow cone?

Record your answer in the space provided.

4. Mr. Jackson purchased some cars for his car lot at the beginning of the month. The model is shaded to show the fraction of these cars that Mr. Jackson sold in each of the first three weeks of the month.



What fraction of the cars Mr. Jackson purchased was sold during these three weeks?

F.
$$\frac{1}{4}$$

G.
$$\frac{3}{4}$$

H.
$$\frac{3}{20}$$

J.
$$\frac{1}{12}$$

$$=\frac{6}{12}+\frac{1}{12}+\frac{2}{12}$$

- 5. Jayson subtracted 38 from the product of 325 and 24. What is this difference?
 - **A.** 4,536 **B.** 7,762

- 325
- 7800

- **C.** 7,800
- **D.** 8,070
- **6.** Which lists do NOT show the numbers in order from least to greatest? Select all correct answers.

7. The table below shows the scores for the women's gymnastics competition at the 2016 Summer Olympics.

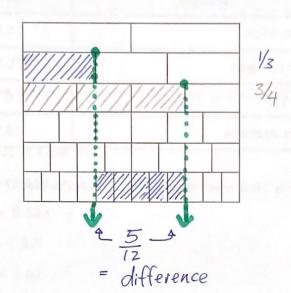
2016 Summer Olympics

Gymnast	Score
Simone Biles	14.599
Gabby Douglas	15.130
Wang Yan	16.79
Rebeca Andrade	15.95

Which gymnast's score is 16.0 when rounded to the tenths place?

- A. Simone Biles
- B. Gabby Douglas
- C. Wang Yan
- D. Rebeca Andrade

8. Gloria used the fraction strips shown below to help her determine the difference between $\frac{3}{4}$ and $\frac{1}{3}$.



What is $\frac{3}{4} - \frac{1}{3}$?

F.
$$\frac{2}{6}$$

G.
$$\frac{4}{8}$$

$$\frac{5}{12}$$

J.
$$\frac{2}{1}$$

Solution Steps
$$\frac{3}{4} - \frac{1}{3}$$

$$= \frac{9}{17} - \frac{4}{12}$$

$$=\frac{5}{12}$$

Calculations

$$\frac{1}{3} = \frac{2}{12} = \frac{4}{12}$$

57/0

In a high school football stadium, there are 3,892 seats. The stadium has 14 sections. Each section has the same number of seats.

How many seats are in each section?

If taking this assessment on paper: Fill in the bubbles on your answer document. Be sure to use the correct place value.

If taking this assessment online: Record your answer in the Keypad provided. Be sure to use the correct place value.

47/0

The library is located 85 feet due north of the school playground. The cafeteria is located $25\frac{3}{4}$ feet due north of the school playground. What is the distance in feet between the

Pibrary and the cafeteria?

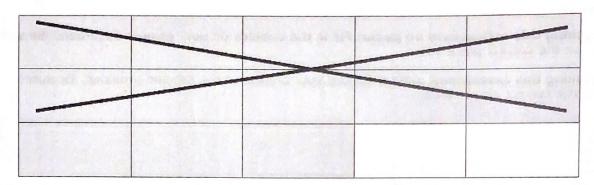
F. $59\frac{3}{4}$ ft

G. $60\frac{3}{4}$ ft

H. $60\frac{1}{4}$ ft

The property of the prop

11. The shaded part of the model represents a fraction. Another fraction was subtracted from the first fraction.



Which expression does the model represent?

- **A.** $\frac{13}{15} \frac{1}{10}$
- **B.** $\frac{10}{15} \frac{3}{15}$
- **c.** $\frac{10}{15} \frac{2}{15}$
- **D.** $\frac{13}{15} \frac{2}{3}$

Solution

$$\frac{13}{15} - \frac{10}{15}$$

$$=\frac{13}{15}-\frac{2}{3}$$

Calculations

Find simplest fractions

$$\frac{10}{15} = \frac{2}{3}$$

36%

12. The table shows the heights of four trees in Mrs. Rivera's yard.

Tree Heights	
Tree	Height (feet)
Olive	48
Oak	$44\frac{1}{4}$
Cherry	13.84
Palm	$2\frac{3}{10}$

How much more is the combined height in feet of the olive tree and cherry tree than the oak tree and palm tree?

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use the correct place value.

$$\frac{Solution}{(0+c) - (0ak + p)}$$

$$(48 + 13.84) - (44.25 + 2.3)$$

$$= 61.84 - 46.55$$

$$= 15.29$$

40	
+ 13.84	
61.84	
3 44. 25	
+ 2.3	
46.55	
511 714	
61.84	
- 46.55	
	adh
15.29	

Calculations

13. Robert had 260 nails. He gave 50 of these nails to his brother and put the rest of the nails into bags. Each bag contained 35 nails.

Which equation can be used to find b, the number of bags Robert used?

A.
$$b = (260 + 50) - 35$$

B.
$$b = (260 - 50) \div 35$$

C.
$$b = (260 + 50) \times 35$$

D.
$$b = (260 - 50) + 35$$

14. Four classes are having a contest to see who can bring the most food for the school's annual food drive. The table shows the total weights of the food collected by each class.

Weights of Food Collected

Class	Weight of Food (pounds)
Ms. Fox	115.6
Ms. Williams	114.52
Mr. Henriquez	115.305
Mr. Martinez	114.483

In what position would Mr. Henriquez's class be if the weights of the food collected in pounds were ordered from greatest to least?

- F. First
- G. Second
- H. Third
- J. Fourth



15. Jack has a box of 804 craft sticks for making picture frames. He will use 16 craft sticks to make each picture frame.

What is the greatest number of picture frames Jack can make using these craft sticks?

Record your answer in the space provided.



16.) Which of the following expressions are equivalent to 52?

Select all correct answers.

G.
$$3(12) + 4(6-2)$$

H.
$$9[5 - (3 - 2) + 4] + 16$$

K.
$$76 - [3(5+2) + 2(8-6)]$$

F.)
$$5(12-3) + 7(9-8)$$
 $(5 \times 9) + 7 = 45 + 7 = 52$

$$\mathbf{G}$$
.) $3(12) + 4(6-2)$ $36 + 16 = 52$

H.
$$9[5-(3-2)+4]+16 = 9 \times (5-1+4)+16 = 9 \times 8+16 = 72+16$$

$$= 76 - [3x7 + 4] = 76 - [21+4]$$

17. Mr. Smith wrote this number on the board.

What is this number rounded to the nearest hundredth?

Record your answer in the space provided.

2.75

7. 754 Thousandths

The 4 in the thousandths

place will round down,

leaving 2.75

18. Kassie had \$1.50 in dimes. She spent all of her money on five pencils.



Which equation can be used to find the amount of money Kassie spent for each pencil?

F.
$$1.50 \times 3 = 4.50$$

G.
$$1.50 \div 5 = 0.30$$

H.
$$1.50 \div 3 = 0.50$$

J.
$$1.50 \times 5 = 7.50$$

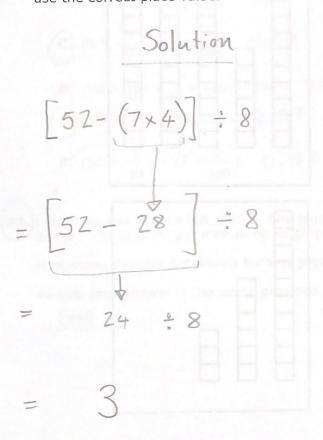
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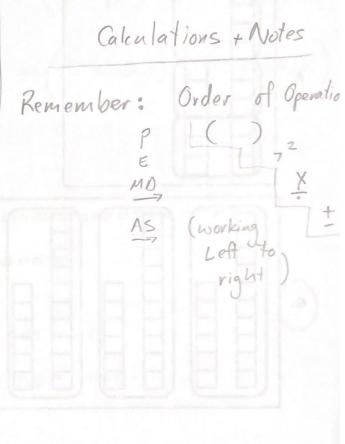
19. What is the value of this expression?

$$[52 - (7 \times 4)] \div 8$$

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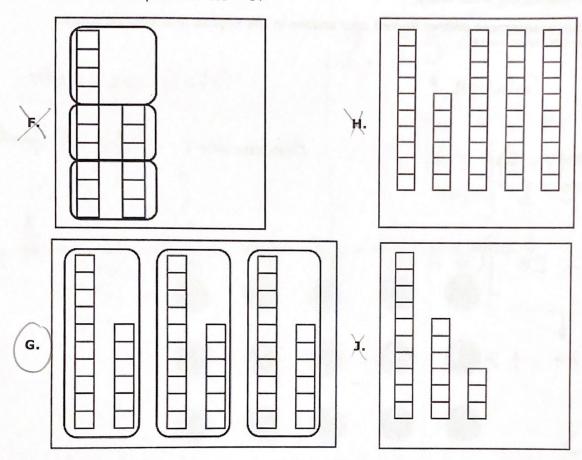




20. Lauren used this model to represent 1 whole.



Which model represents 1.6 \times 3?



21. Courtney ate fifty-seven hundredths of a pound of strawberries.

How is this number written in expanded notation?

Select all correct answers.

$$A \cdot (7 \times \frac{1}{10}) + (5 \times \frac{1}{100}) \quad 0.75$$

$$(c.)$$
 $(5 \times \frac{1}{10}) + (7 \times \frac{1}{100})$ 0.57

F.
$$(50 \times \frac{1}{10}) + (7 \times \frac{1}{100}) \quad 0.57$$

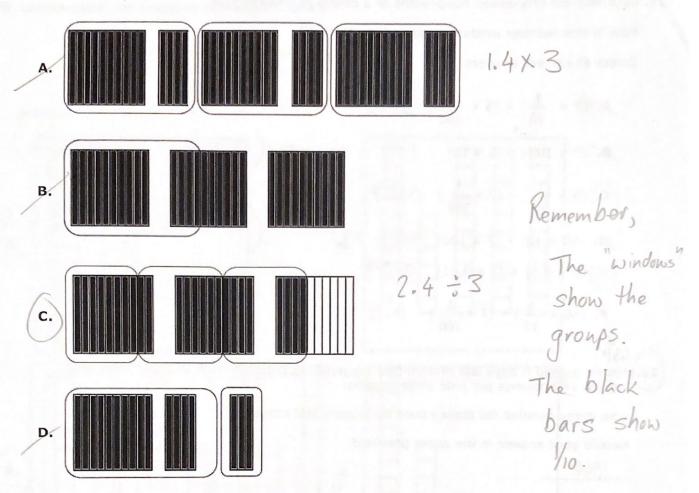
Solution 0.57= $(5 \times \frac{1}{100}) + (7 \times \frac{1}{100})$ = $(5 \times 0.1) + (7 \times 0.01)$

Blanca jogged 8 days last month. She jogged 1.25 miles on each of these days and burned 140 calories per mile while jogging.

How many calories did Blanca burn by jogging last month?

Record your answer in the space provided.

23. Which model represents 2.4 ÷ 3?



24. Mr. Hernandez paid \$29.87 for each jacket and \$14.65 for each shirt he bought. Mr. Hernandez bought 3 jackets and 7 shirts.

How much money did he spend?



Six students each wrote down a number between 50 and 70. The list shows the numbers they wrote.

Josie - 51Caleb - 53Ariel - 55 Nathan - 57 Melissa - 61 Bethany - 69

Which students wrote down a prime number?

Select all correct answers.

- A. Josie
- B. Caleb
 - C. Ariel
 - D. Nathan
- E.) Melissa
 - F. Bethany

$$61 = \text{prime}$$

$$(61 \times 1)$$

$$69 = composite$$

$$(69 \times 1)$$

$$(23 \times 3)$$

$$57 = Composite$$

$$(57*1)$$

$$(19×3)$$

2 factors, the number itself and 1. 2) Composite has more

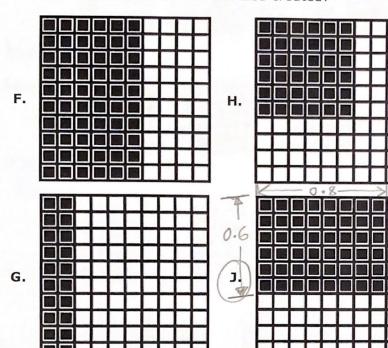
All even numbers, composite

13

0.8

26. Lisa bought 0.8 of a pound of chocolate. She ate 6 tenths of the chocolate she bought. Lisa represented how much of a whole pound of chocolate she has eaten. In the model, a flat represents one whole pound of chocolate.

Which model could be the one Lisa created?



pound 0.8

0.8 × 0.6

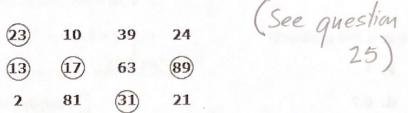
27. Marissa saved a total of \$75.60 over 12 weeks. She saved the same amount of money each week. How much money did Marissa save each week?

1) Divide Multiply Subtract Bring Down

$$T \times 12 = 12 \qquad 7 \times 12 = 84$$

$$2 \times 12 = 24$$
 $8 \times 12 =$

28. Tristan was given a group of numbers and asked to circle all the prime numbers. His work is shown below.



Which prime number does Tristan still need to circle?



G. 39

H. 63

J. None

Each of the 87 fifth-grade students in Mr. Cooper's reading classes read the book Spy Camp, which has 352 pages.

After completing the book, how many total pages did all of the students in Mr. Cooper's classes read?

Record your answer in the space provided.

30. A math problem is shown.

$$4.76 \div 68$$

What is the quotient?

F. 7

G. 0.7

H. 0.07

J. 0.007

Remember

Divisor

68 4.

4 76

Quolient

587

31. Roderick wrote the expression shown.

$$12 \div 3 + 2(32 - 18)$$

What do these parentheses indicate in the expression?

- A. Subtract 18 from 32 before multiplying by 2.
- **B.** Multiply 2 by 32 before subtracting 18.
- C. Add 3 and 2 together before subtracting 18 from 32.
- D. Divide 12 by 3 before adding 2.

Solve me first!

So: 12:3+2x (32-18)

32. Mr. Newman packed 16 large-sized ornaments and 29 medium-sized ornaments into a box. He packed 13 boxes like this. Mr. Newman used this equation to find x, the number of ornaments he packed into all the boxes.

$$x = (16 + 29)13$$

How many ornaments did Mr. Newman pack into the boxes?

Record your answer in the space provided.

$$\frac{585}{\text{Solution}}$$

 $X = (16 + 29) \times 13$
 $= 45 \times 13$
 $= 585$

33. Four hundred forty-two students were placed into 24 groups with about the same number of students in each group.

Using compatible numbers, what is the best estimate of the number of students in each group?

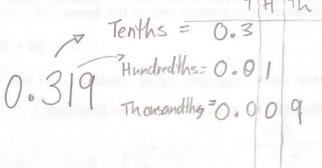
A. 20, because
$$500 \div 25 = 20$$

B. 18, because
$$450 \div 25 = 18$$

$$\mathbf{c}$$
. 12,500, because 500 \times 25 = 12,500

D. 11,250, because
$$450 \times 25 = 11,250$$

34. During the 2021 baseball season, Yuli Gurriel had a batting average of 0.319. What is the value of the digit in the thousandths place? Record your answer in the space provided. 0.009



35. Tracy played tennis for $1\frac{3}{4}$ hours on Saturday afternoon. She played tennis 3.2 hours on

Sunday. About how many hours did Tracy play tennis during the weekend?

- A. 3 hours

- B. 4 hours C. 5 hours
- D. 6 hours

= 3 hours = 5 hours

36. Michelle purchased 10 feet of string lights to decorate her Christmas tree. She used 7.625 feet of these string lights on the tree.

What was the length of string lights in feet that Michelle had left?

F. 17.625 ft

10 ft - 7.625 ft

9 10 10 10 10 . 000

G. 7.625 ftH. 3.625 ft

J. 2.375 ft

= 2.375 ft

-7.625

2.3