Common core Test Sample Questions

Grade 5 Math

134050085_1

1 Which expression represents the phrase "4 times the sum of 9 and 6"?

A $4 \times (9 + 6)$

B $4 \times 9 + 6$

C $9 + 6 \times 4$

D $9 + (6 \times 4)$

144050102_4

2 A water tank in the shape of a right rectangular prism is 11 feet deep. The top of the water tank has an area of 220 square feet. What is the volume, in cubic feet, of the water tank?

A 20

B 231

C 1,331

D 2,420

134050406_3

3 Members of the Garner High School yearbook committee need to put 1,344 student photos on 24 pages in the yearbook. They want to put the same number of student photos on each page. How many student photos will they put on each page in the yearbook?

A 51

B 52

C 56

D 61

134040031_2

4 Which decimal makes the number sentence true?

$0.27 > \underline{\quad ? \quad}$

A 0.4

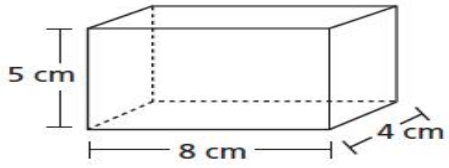
B 0.26

C 0.3

D 0.28

6

Juliette made the jewelry box shown below. The jewelry box was shaped like a rig rectangular prism.



What was the volume, in cubic centimeters, of the jewelry box?

A 17

B 37

C 160

D 184

The fifth-grade classes at Brookfield School used five identical buses to go on a field trip.

- There were a total of 40 seats on each bus.
- All of the seats on four buses were filled.
- The fifth bus had $\frac{4}{5}$ of the seats filled.
- $\frac{1}{8}$ of all the passengers on the buses were adults.

How many adults went on the field trip with the fifth-grade classes?

A 20

B 24

C 25

D 32

Which expression is equivalent to 32?

A $(30 + 6) \div 3$

B $2 \times (9 + 7)$

C $9 \times (3 + 5)$

D $6 + 2 \times 4$

Josie has a 1,364-page book to read over summer vacation. She wants to read the same number of pages each day for 62 days. What is the total number of pages Josie will need to read each day?

A 28

B 27

C 22

D 17

What is the product of $\frac{5}{8} \times \frac{3}{4}$?

A $\frac{8}{32}$

B $\frac{15}{32}$

C $\frac{8}{12}$

D $\frac{15}{12}$

Equation 1: $\frac{3}{10} + \frac{15}{100} = \frac{18}{100}$

Equation 2: $\frac{4}{10} + \frac{32}{100} = \frac{72}{100}$

Equation 3: $\frac{7}{10} + \frac{2}{100} = \frac{27}{100}$

Equation 4: $\frac{6}{10} + \frac{27}{100} = \frac{87}{100}$

Which equation or equations are true?

A equation 1 only

B equation 2 only

C equations 3 and 4 only

D equations 2 and 4 only

Barbara filled a box with layers of unit cubes. The box had a volume of 125 cubic units. Which sentence about the box **must** be true?

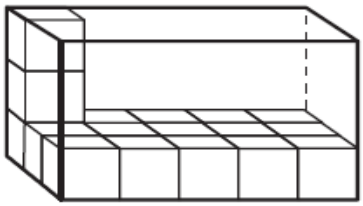
A There were 125 unit cubes in the bottom layer.

B The box was filled with exactly 125 unit cubes.

C There were 125 unit cubes in each layer.

D The box was filled with less than 125 unit cubes.

Rashad is filling a toy box with wooden blocks that are each a unit cube in size. He filled the bottom layer of a toy box with 15 wooden blocks. He then stacked two more wooden blocks on top of the bottom layer. The partially filled toy box is shown below.



What was the total volume, in cubic units, of the toy box?

A 15

B 17

C 30

D 45

Which expression represents the phrase "triple the sum of 24 and 9"?

A $3 + (24 + 9)$

B $3 \times (24 + 9)$

C $3 + 24 + 9$

D $3 \times 24 + 9$

Which equation correctly shows the relationship between the numbers 2,560 and 256?

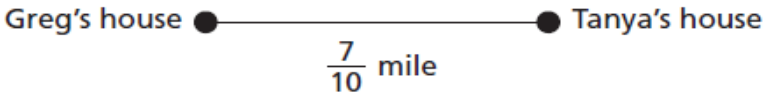
A $2,560 = 1,000 \times (2 + 5 + 6)$

B $2,560 = 10 \times (2 + 5 + 6)$

C $2,560 = 10 \times (200 + 50 + 6)$

D $2,560 = \frac{1}{10} \times (200 + 50 + 6)$

The distance from Greg's house to Tanya's house is $\frac{7}{10}$ of a mile.



Which number correctly shows the number of miles as a decimal?

A 0.07

B 0.7

C 7.0

D 7.10

Movie tickets cost $9.25 each and a large order of popcorn costs $7.75. What is the total cost of 5 movie tickets and a large order of popcorn?

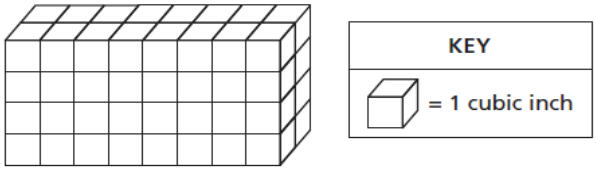
A $22.00

B $48.00

C $54.00

D $85.00

Jack used cubes to make the right rectangular prism below.



He then made a smaller right rectangular prism using $\frac{1}{4}$ of the number of cubes. What was the volume, in cubic inches, of the smaller right rectangular prism?

A 8

B 13

C 16

D 64

What is the value of the expression below

$$\frac{1}{4} \div 8$$

A $\frac{1}{32}$

B $\frac{1}{2}$

C 2

D 32

Nellie has a watering can that contains 20 cups of water. She pours one quart of water on each plant in her yard. If Nellie uses all of the water in the watering can, how many plants does she water?

A 4

B 5

C 10

D 80

Christopher wants to buy a notebook for $2.15, a pack of glue sticks for $5.08, and a pack of pens for $3.08. What is the total cost of the three items Christopher wants to buy?

A $10.75

B $10.31

C $10.23

D $10.11

Min wants to make 100 name tags with ribbons attached requires five centimeters of ribbon. She has 3.25 meters of more centimeters of ribbon does Min still need to make 1

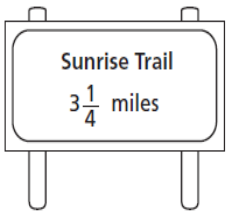
A 175

B 305

C 325

D 825

The sign below shows the length of a trail in a park.



What is the length, in feet, of the trail?

A 5,280

B 5,720

C 15,840

D 17,160

Hank and Debra each own two milking cows. One day, they milked their cows and compared the amount of milk the cows produced in that one day.

COW MILK PRODUCED

	Type of Cow	
	Jersey	Holstein
Hank's Cows (gallons of milk)	$4\frac{3}{4}$	$4\frac{1}{8}$
Debra's Cows (gallons of milk)	$5\frac{1}{2}$	$5\frac{2}{3}$

How many more gallons of milk did Debra's two cows produce on that day compared to Hank's two cows?

Show your work.

In a shipment of new books for a library, $\frac{5}{12}$ of the books were poetry and $\frac{2}{5}$ were biographies. The remainder of the books in the shipment were mysteries. What fraction of the books in the shipment were mysteries?

A $\frac{2}{12}$

B $\frac{11}{60}$

C $\frac{7}{17}$

D $\frac{49}{60}$

In a math game, a player chooses two numbers, as described below.

- First number: a mixed number between 2 and 10
- Second number: 1, 2, 3, 4, or 5

Which statement describes the product of the two numbers a player chooses?

A The product must be a whole number less than the second number.

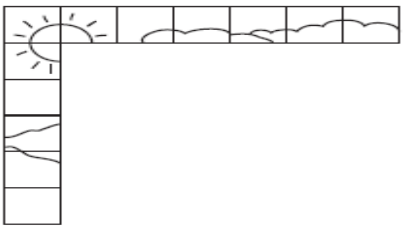
B The product must be a value less than the second number.

C The product must be a whole number greater than the second number.

D The product must be a value greater than the second number.

Write two hundred three and forty-two thousandths in standard form and expanded form.

Tony began putting together a rectangular puzzle. He completed the top edge and left edge of the puzzle, as shown below. Each piece is a square that has a side length of $2\frac{1}{2}$ centimeters.



What is the total area, in square centimeters, of the completed puzzle?

Show your work.

Four classmates were asked to decorate $\frac{1}{5}$ of the bulletin board in a classroom. They divided the section to be decorated equally among the 4 classmates. What fraction of the entire bulletin board did each classmate decorate?

Show your work.

The list below shows the numbers of miles John biked each day for 12 days.

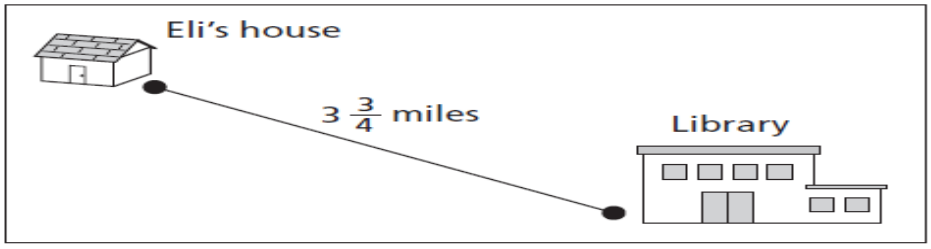
$$6\frac{3}{4},\ 7,\ 6\frac{1}{2},\ 6\frac{3}{4},\ 7\frac{1}{4},\ 7,\ 7\frac{1}{2},\ 6\frac{3}{4},\ 7\frac{1}{2},\ 6\frac{3}{4},\ 6\frac{1}{2},\ 7\frac{3}{4}$$

Make a line plot of the data using the line below. Include a title and correct labels.

Bella has 6.3 kilograms of berries. She packs 0.35 kilogram of berries into each container. She then sells each container for $2.99. How much money will Bella earn if she sells all the containers?

Show your work.

Eli lives $3\frac{3}{4}$ miles from the library.



He decided to bike from his home to the library to return some books. Eli biked $1\frac{1}{10}$ miles when he remembered that he had left a book at home, so he biked back home to get it. After getting the book from home, he biked to the library. What was the total distance, in miles, Eli had biked when he finally reached the library?

There are 12 players on a new softball team. Before the team starts playing games, the team must pay a total registration fee of $572. Along with the registration fee, the team will also need to spend a total of $1,240 on equipment.

To pay for the cost of the registration fee and the equipment, the players held a car wash and raised $786. They then decided to sell candles for $9.50 per candle to cover the remaining costs. If each player sells the same number of candles, how many candles must each player sell?

Show your work.