



**THIRD SPACE
LEARNING**

5th Grade Virginia Practice Test

Practice Test Grade 5

Grade 5

Questions

Name:

Class:

Date:

Score:

Unit 1

9 questions

You are NOT permitted to use calculators.

1 Find the solution:

$$3(12 \times 6 + 8) - 4 \div 2 + 2$$

Answer:_____

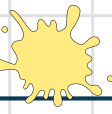
2 Fill in the table with the correct decimal equivalent.

Fraction	Decimal
$\frac{3}{4}$	
$\frac{2}{5}$	
$\frac{1}{2}$	

3 Select the numbers that round 3.46 when rounded to the nearest hundredth.

- A. 3.469
- B. 3.457
- C. 3.466
- D. 3.464
- E. 3.454

4 Camilla found the product of 327 and 43. Her work is shown below. Her teacher was unable to read one of the numbers in her work. What number belongs in the box where the number the teacher can't read is?

			1	2	
			3	2	7
		×		4	3
			¹ 9	8	1
+	1	¹ 3,		8	0
	1	4,	0	6	1

Place your answer in the space:_____

- 5 Which expression represents the statement, “The sum of 6 and 7 subtracted from 20”

A. $20 - 6 + 7$
B. $20 + 6 + 7$
C. $(20 - 6) + 7$
D. $20 - (6 + 7)$

- 6 Select the number that is represented by,

$$8 \times 100 + 6 \times 10 + 3 \times 1 + 9 \times \frac{1}{100}$$

A. 863.9
B. 86.39
C. 863.09
D. 863.009

- 7 Find the quotient of $41.888 \div 8$

Answer: _____

- 8 List the numbers in order from least to greatest.


A. 7.5

B. $7\frac{1}{5}$

C. 7.05

D. $7\frac{1}{4}$

Place your answer in the space below.

 Answer

- 9 Identify the rule for the input/output table below.

Input	Output
2	6
3	9
4	12

Use the space below to explain your answer.

 Answer

Unit 2

25 questions

You are permitted to use calculators.

- 1 Emma wrote down two patterns.

Pattern A: 0, 12, 24, 36, 48, 60...

Pattern B: 0, 4, 8, 12, 16, 20...

Which statement correctly compares Emma's patterns?

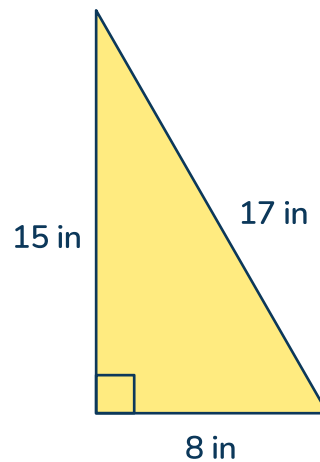
- A. The numbers in both patterns start odd, then become even.
- B. The numbers in both patterns alternate between odd and even.
- C. The numbers in Pattern B are 8 more than the numbers in Pattern A.
- D. The numbers in Pattern A are 3 times the numbers in Pattern B.

- 2 A certain fraction is greater than 0 and less than 1. When that fraction is multiplied by 3, which point(s) on the number line could be the answer? Select all the correct answers.



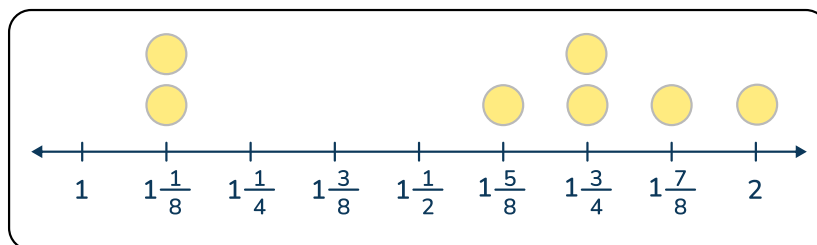
- A. Point U
- B. Point V
- C. Point W
- D. Point X
- E. Point Y

- 3 Find the area of the triangle.



Area = _____

- 4 The line plot below shows the heights of Jamal's plants in inches.



What is the total height, in inches, of the 3 shortest plants? Use the space below to show your work.

Answer

- 5 Jayson volunteers at a zoo. He helps feed the animals based on the following rules.

- A lion eats $\frac{2}{3}$ the amount of food as a tiger.
- A cheetah eats $\frac{3}{2}$ the amount of food as a tiger.

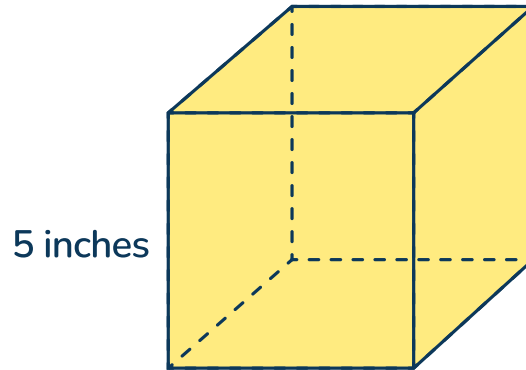
Based on the information above, which statement is true?

- A. A cheetah and a lion eat the same amount of food.
- B. A lion eats more than a tiger.
- C. A cheetah eats less than a lion.
- D. A lion eats less than a cheetah.

-
- 6 The temperature of a lake is *about* 86.3° . If the temperature was rounded to the nearest tenth, what are three possible actual temperatures of the lake?

Answer: _____

- 7 Write an equation representing the volume of the cube and then solve the equation. Use the space to write your answer.



 Answer

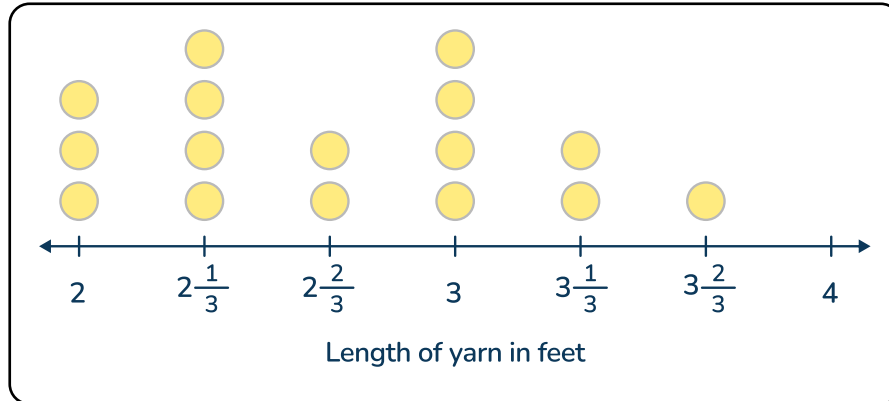
- 8
- The table below lists the prices of some of the top selling fruits at the grocery store.

Item	Size	Price
Bananas	1 bunch	\$0.72
Blueberries	10 oz container	\$3.99
Strawberries	16 oz container	\$4.89
Avocado	1 avocado	\$1.29
Watermelon	1 watermelon	\$9.87
Oranges	4 lb bag	\$5.75

If Willis has \$20, will he have enough money to buy 1 watermelon and 2 containers of strawberries? Provide an explanation in the box below.

 Answer

- 9 The line plot below shows the lengths of 16 pieces of yarn Joanna cut to use for an art project.




What is the difference between the longest piece of yarn and the shortest piece of yarn?_____

- 10 Noah built a new garden bed in his backyard. He needs to fill it with $10\frac{1}{4}$ cubic yards of soil. He has already poured in $7\frac{5}{12}$ cubic yards of soil. How much more soil does he need to pour in to fill the garden bed? Answer in lowest terms. Place the answer in the space below.

Answer:_____

- 11

Chantal works at a party store and is filling boxes with candy to be shipped. She is filling the boxes with chocolate bars and lollipops. Chantal has 1,865 lollipops and 673 chocolate bars that are going to be shipped in the boxes. Each box to its highest capacity can hold 42 pieces of candy. How many boxes can she fill to capacity? Show your work in the space below.

 Answer

- 12

Mr. Shockley is the principal of Dayton Elementary School. The school is growing in population and he would like to add another section of kindergarten to cut down on class size. The data is listed in the table below. What is the approximate average kindergarten class size?

Kindergarten Class	Number of Students
Class 1	28
Class 2	27
Class 3	22
Class 4	26
Class 5	28
Class 6	25

- 13 Syria makes a 1 pound snack mix for her hike using dried bananas, MnN's and peanuts. The list below shows how many pounds of MnN's and peanuts she uses.


- $\frac{3}{7}$ pound of MnN's
- $\frac{1}{5}$ pound of peanuts

How much dried bananas, in pounds, does Syria use?

- A. $\frac{22}{35}$
- B. $\frac{28}{35}$
- C. $\frac{15}{35}$
- D. $\frac{13}{35}$

-
- 14 Teresa is throwing a party and buys 8 large sub sandwiches. She cuts the large sandwiches into eighths. How many pieces of sandwich does Teresa have for the party?

Use the space below to show your work.

 Answer

- 15 What is four hundred sixty and thirteen thousandths written in standard form?

Answer:_____

-
- 16 Noreen has 3 lop bunnies and 1 dwarf bunny. She feeds each of them 2 bowls of lettuce 3 times a day. Which expression can be used to show the amount of bowls of lettuce she gives her bunnies in a day?

- A. $2 + 3 (3 \times 1)$
- B. $2 \times (3 + 1)$
- C. $6 \times (3 + 1)$
- D. $2 + 3 + 3 + 1$

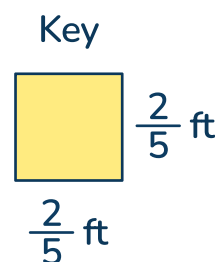
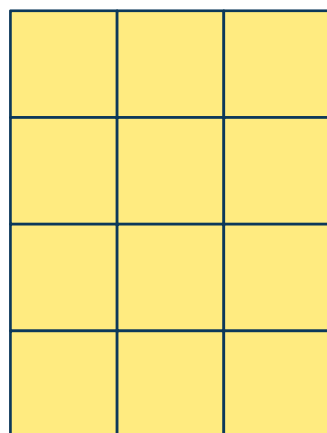
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- 17 Nikki is building a rectangular billboard for her senior project. The billboard is 15 feet wide and 9 feet long. Write an equation that represents the area of Nikki's billboard. In your equation, let b represent the area of Nikki's billboard. Then solve your equation. Use the space below to enter your answer.

 Answer

- 18 How does the digit 5 in the number 54,082 compare to the digit 5 in the number 60,532? Explain your answer in the space below.

 Answer

- 19 A small portion of London's table is covered with square tiles that are $\frac{2}{5}$ foot by $\frac{2}{5}$ foot. The diagram below shows the part of the table covered by these tiles. Find the area.



20 Use the space provided to complete each conversion.

$$10 \text{ mm} = 1 \text{ cm}$$

$$100 \text{ cm} = 1 \text{ m}$$

$$1000 \text{ m} = 1 \text{ km}$$

$$6 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$$

$$6 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$$

$$\underline{\hspace{2cm}} \text{ m} = 6 \text{ km}$$

21 Select all the prime numbers.

A. 42

B. 2

C. 17

D. 49

E. 21

F. 5

- 22 The fifth graders are having a candy sale as a fundraiser. Homeroom 1 sold $9\frac{7}{8}$ cases of candy. Homeroom 2 sold $\frac{4}{5}$ as many cases of candy as Homeroom 1. How many cases of candy did Homeroom 2 sell?

A. $7\frac{1}{10}$ cases

B. $7\frac{3}{10}$ cases

C. $7\frac{9}{10}$ cases

D. $7\frac{7}{10}$ cases

-
- 23 What number will be in the tens place after 7,562 is divided by 100.


Answer:_____

24 A snowstorm brought snow over three days in Chicago, totaling 48.7 inches.

- Monday it snowed 14.2 inches
- Tuesday it snowed 20.6 inches

How much snow fell on Wednesday?

Use the space below to show your answer.

 Answer

25 Adriana has 6 one-dollar bills, 2 quarters, 8 dimes, and 2 pennies. Caden has 4 one-dollar bills, 5 dimes, and 7 pennies. What is the difference between the amount of money Adriana has and the amount of money Caden has?

Use the space below to show your answer.

 Answer

Answer Key

Unit 1 No Calculator			
Item number	Correct answer	Standard(s)	DOK
1	240	5.CE.4	DOK 2
2	$\frac{3}{4} = 0.75$ $\frac{2}{5} = 0.40$ $\frac{1}{2} = 0.50$	5.NS.1	DOK 2
3	B, D	5.CE.3	DOK 1
4	0	5.CE.1	DOK 2
5	D	5.CE.4	DOK 2
6	C	5.NS.1	DOK 2
7	5.236	5.CE.3	DOK 1
8	7.05, $7\frac{1}{5}$, $7\frac{1}{4}$, 7.5	5.NS.1	DOK 3
9	The rule is to multiply the input by 3 to get the output.	5.PFA.1	DOK 3

Unit 2 Calculator			
Item number	Correct answer	Standard(s)	DOK
1	D	5.PFA.1	DOK 2
2	B,C,D	5.PFA.1 5.CE.3	DOK 3
3	60 square inches	5.MG.2	DOK 2
4	$1\frac{1}{8} + 1\frac{1}{8} + 1\frac{5}{8} = 3\frac{7}{8}$	5.PS.1 5.CE.2	DOK 3
5	D	5.CE.2	DOK 2
6	Sample answer: 86.29, 86.31, 86.25	5.CE.3	DOK 3
7	$5 \times 5 \times 5 = V$ $125 = V$ 125 cubic inches	5.PFA.1 5.MG.2	DOK 3
8	Yes, Willis will have enough money. The cost is $\$9.87 + 2(\$4.89) = \$9.87 + \$9.78 = \$19.65$ $\$20 - \$19.65 = \$0.35$ Willis will have 35 cents left over	5.CE.3	DOK 3
9	$3\frac{2}{3} - 2 = 1\frac{2}{3}$ inches	5.PS.1 5.CE.2	DOK 2
10	$2\frac{5}{6}$ cubic yards	5.CE.2 5.MG.2	DOK 2
11	$1865 + 673 = 2538$ $2538 \div 42 \approx 60.4$ 60 Boxes	5.CE.1	DOK 3

Unit 2 Calculator			
Item number	Correct answer	Standard(s)	DOK
12	$\frac{28 + 27 + 22 + 26 + 28 + 25}{6} = 26$ Average = 26 students	5.PS.2	DOK 1
13	D	5.CE.2	DOK 2
14	64 pieces of sandwich	5.CE.2	DOK 3
15	460.013	5.NS.1	DOK 1
16	C	5.PFA.1	DOK 2
17	$b = 15 \times 9$ $b = 135$ square feet	5.CE.3	DOK 3
18	The 5 in 54,082 is in the 10,000 place and the 5 in 60,532 is in the hundreds place. So the 5 in the 10,000 place is 100x the value of the 5 in the 100 place.	5.NS.1	DOK 3
19	$\text{Area} = 12 \times \frac{4}{25} = \frac{48}{25} = 1\frac{23}{25} \text{ ft}^2$	5.MG.2	DOK 3
20	$6\text{mm} = 0.6\text{cm}$ $6\text{cm} = 0.06\text{m}$ $6000\text{m} = 6\text{km}$	5.MG.2	DOK 3
21	B, C, F	5.NS.2	DOK 1
22	C	5.CE.2	DOK 2
23	7	5.NS.1	DOK 2

Unit 2 Calculator			
Item number	Correct answer	Standard(s)	DOK
24	$14.2 + 20.6 = 34.8$ $48.7 - 34.8 = 13.9$ <i>13.9 inches of snow on Wednesday</i>	5.CE.3	DOK 3
25	Adriana = \$7.32 Caden = \$4.57 $7.32 - 4.57 = 2.75$ \$2.75	5.CE.3	DOK 3




Breakdown of Assessment by domain				
Number and Number Sense (NS)	Computation and Estimation (CE)	Measurement and Geometry (MG)	Probability and Statistics (PS)	Patterns, Functions, and Algebra (PFA)
20%	36%	19%	8%	17%

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