



THIRD SPACE
LEARNING

5th Grade Illinois Readiness Assessment Practice Test

Practice Test Grade 5

Grade 5

Questions

Name:

Class:

Date:

Score:

Unit 1 - No Calculator

8 questions

- 1 Emma wrote down two patterns.

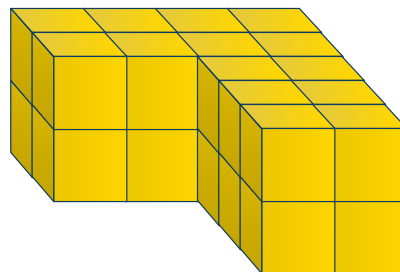
Pattern A: 0, 12, 24, 36, 48, 60...

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 The composite shape below is made up of unit cubes. What is the volume, in cubic units, of the composite shape?




Enter your answer in the space provided.

Volume: _____ cubic units

- 3 Nikki is building a rectangular billboard for her senior project. The billboard is 15 feet wide and 9 feet long.

Part A:

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

Part B:

Nikki is making a border to go around the billboard. This border will be placed along the edge, except where there is a 3 ft figure in one of the corners. The material she is using to make the border costs \$2 for one foot.

Write an expression that represents the total cost of the border.

Explain how you found your expression. Use the space below to write your expression and your explanation.

 Answer

Part C:

Use your expression from Part B to find the total cost, in dollars, of the border.

 Answer

- 4 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

- 5 Find the solution:

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

Answer:_____

- 6 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:_____

- 7
- 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

Part A:

How much would it cost to buy 2 watermelons and 3 bunches of bananas?
Use the space to write your answer and show your work.

 Answer

Part B:

If you have \$11, will you have enough money to buy 1 watermelon and 1 avocado?
Provide an explanation in the box below.

 Answer

- 8 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:_____

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Unit 2 - No Calculator

12 questions

- 1 Yeva and her 3 friends go out to eat at a restaurant. At the end of the meal, the total bill is \$72.36. They decide to split the bill equally. How much will each friend pay?
- A. \$289.44
 - B. \$24.12
 - C. \$18.09
 - D. \$217.08
-

- 2 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?

Place your answers in the box below:

 Answer

- 3 There are two lizard tanks in Mr. Teasley's science classroom, Tank A and Tank B. Each tank has two sections.


Part A:

One section of Tank A has a volume of 28 cubic feet. The volume of the other section of Tank A has a volume of 102 cubic feet. What is the total volume, in cubic feet, of Tank A?

 Answer

Part B:

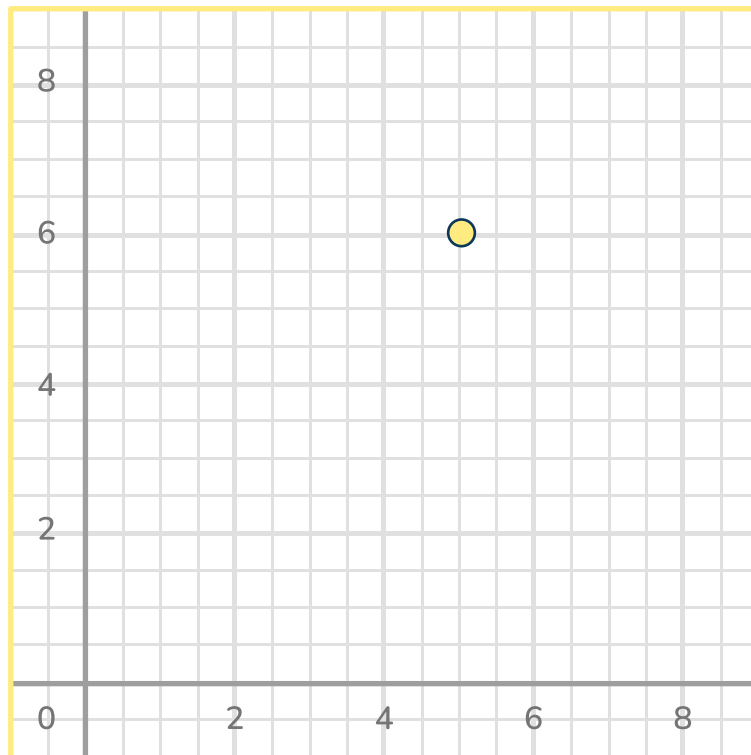
Tank B has the same volume as Tank A. The volume of one section of Tank B is 68 Cubic feet. What is the volume in cubic feet of the other section of Tank B?

 Answer

-
- 4 Which expression shows '5 less than the quotient of 3 and 4'? Select all that apply.

- A. $5 - 3 \div 4$
- B. $3 \times 4 - 5$
- C. $5 - (3 + 4)$
- D. $\frac{3}{4} - 5$
- E. $(3 \div 4) - 5$

- 5 Identify the ordered pair on the graph below.
Use the space to write your answer.

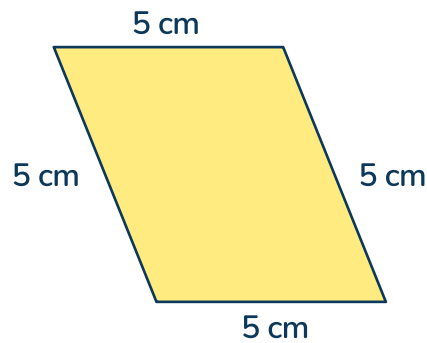


Ordered pair: _____

-
- 6 Round 12,380.806 to the nearest hundredth. Use the space to write your answer.


Answer: _____

- 7 Which name(s) can this shape be classified with? Select all the correct answers.

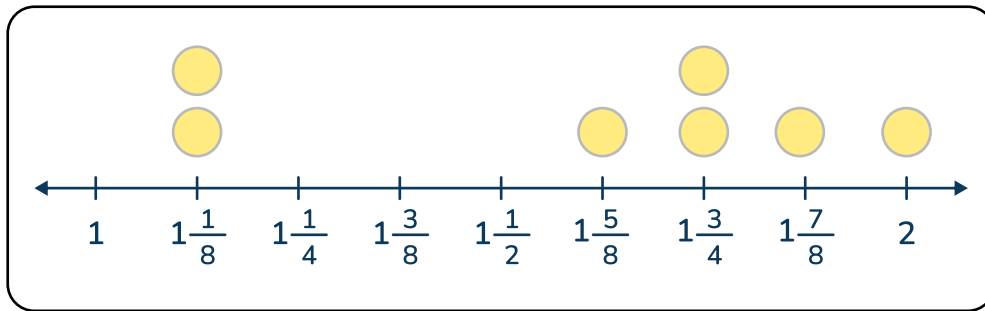


- A. Rhombus
- B. Rectangle
- C. Square
- D. Parallelogram
- E. Quadrilateral

-
- 8 Four chocolate bars are shared equally between 5 people. Write a fraction representing the amount of each chocolate bar each person will get. Place your answer in the box below.

 Answer

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



Part A:

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

Answer

Part B:

What is the difference, in inches, between the tallest plant and the shortest plant? Use the space below to show your work.

Answer

- 10 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.
-

- 11 Select the expression that is equal to 702.203.

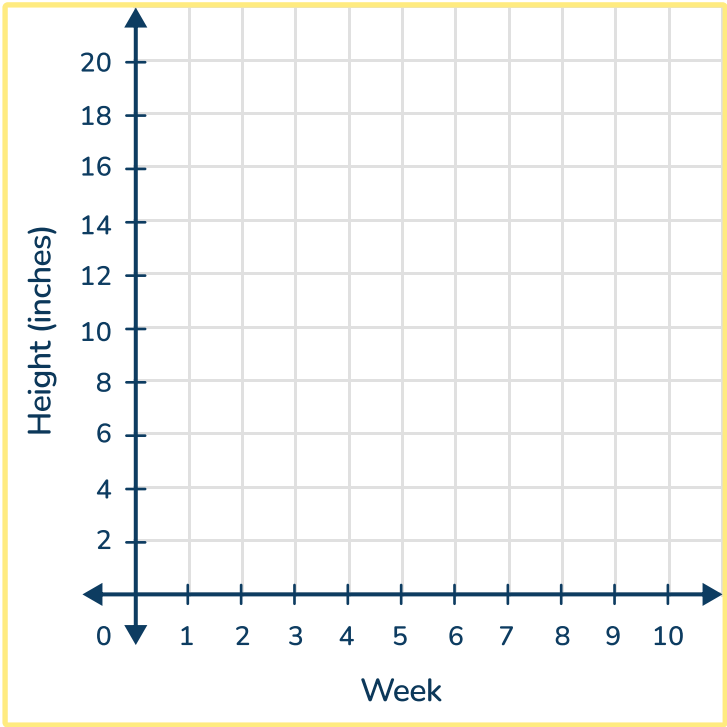
- A. $7 \times 100 + 2 \times 1 + 2 \times (\frac{1}{10}) + 3 \times (\frac{1}{1,000})$
- B. $7 \times 100 + 2 \times 1 + 2 \times (\frac{1}{100}) + 3 \times (\frac{1}{1,000})$
- C. $7 \times 100 + 2 \times 10 + 2 \times 1 + 3 \times (\frac{1}{100})$
- D. $7 \times (\frac{1}{100}) + 2 \times (\frac{1}{1}) + 2 \times (\frac{1}{10}) + 3 \times (\frac{1}{100})$

- 12
- A farmer planted a seed and then measured the height of the plant each week for ten weeks, rounded to the nearest inch. The table shows the data the farmer collected.

Week	1	2	3	4	5	6	7	8	9	10
Height	1 in.	2 in.	4 in.	5 in.	7 in.	11 in.	13 in.	14 in.	15 in.	16 in.

Part A:

Plot each pair of numbers on the coordinate grid below.



Part B:

Between which two weeks did the plant make the greatest amount of growth? Use your graph to explain.

Answer

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Unit 3 - No Calculator

8 questions

1 Part A:

Enter your answer in the space provided.

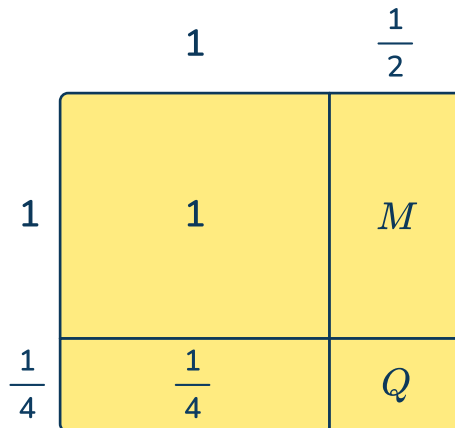
$$7.2 \times 0.1 = \underline{\hspace{2cm}}$$

Part B:

Enter your answer in the space provided.

$$7.2 \div 0.1 = \underline{\hspace{2cm}}$$

- 2 Diego is solving $1\frac{1}{2} \times 1\frac{1}{4}$. He draws the model below.



Part A:

Determine the number that each letter in the model represents and explain each of your answers.

Answer

Part B:

Write an expression representing the area.

Answer

Part C:

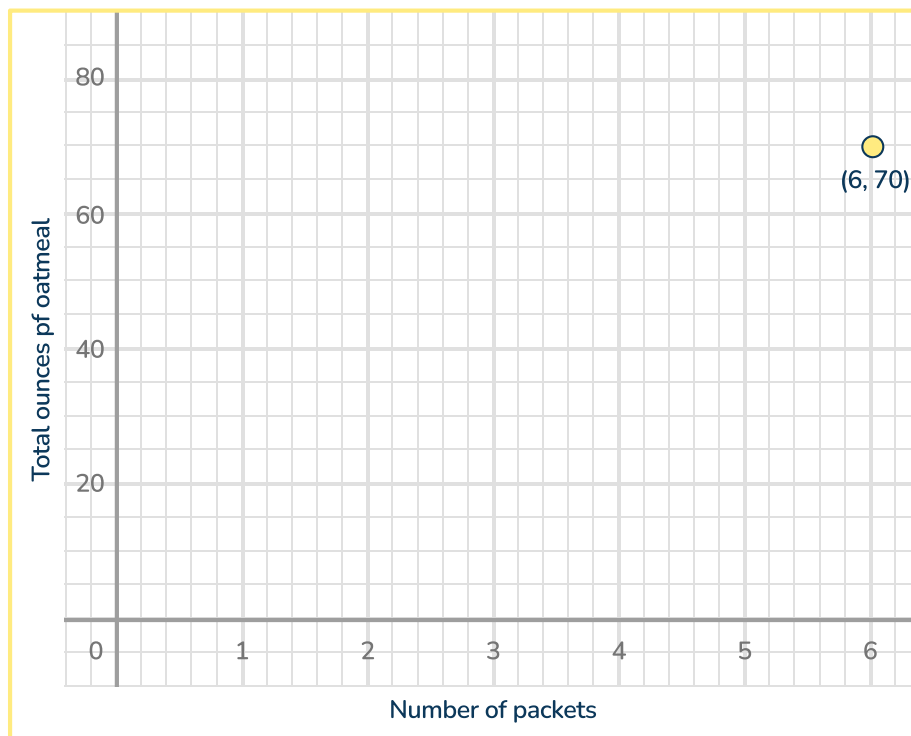
Find the product.

Answer

- 3 Harley has been measuring a plant for a science project. The flower has grown $\frac{1}{3}$ of an inch each week and has grown a total of 2 inches taller. How many weeks has Harley been measuring this flower? Use the space to write your answer.

Answer:_____

- 4 The graph shows the total number of ounces in any number of packets of oatmeal.



Select the statement that correctly explains the meaning of (6, 70) on the graph.

- A. Each packet of oatmeal is 20 ounces.
- B. 6 packets of oatmeal weigh 70 ounces.
- C. 70 packets of oatmeal have 6 total ounces.
- D. There are 72 ounces in 6 packets of oatmeal.

- 5 Use the space provided to complete each conversion.

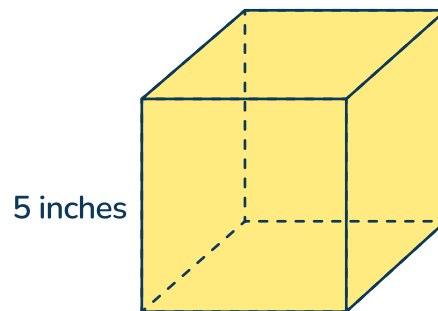
$$6 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$$


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

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

- 6 Part A:

Write an expression representing the volume of the cube. Use the space to write your answer.



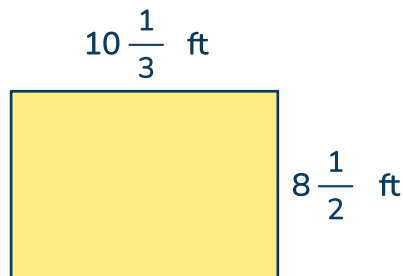
 Answer

- Part B:

Find the volume of the cube. Use the space to show your work.

 Answer

- 7 Muhammad is getting new carpet installed in his bedroom. The diagram below shows the dimensions of his bedroom floor. If the carpet covers the entire floor, find the area of the carpet. Use the space below to show your work.



Answer

- 8 Maddie and her team like to drink crocorade to stay hydrated. The team cooler can hold 6 gallons of crocorade.

PART A:

Maddie fills 5 bottles with crocorade with each bottle holding 16 ounces each. How many ounces of crocorade will be left in the cooler? Use the space to show your work and write your answer.

Answer

PART B:

The the coach asks Maddie to fill 6 more bottles with crocorade and a pitcher that holds a $\frac{1}{2}$ gallon. How many ounces of crocorade will now be left in the team cooler? Use the space to show your work and write your answer.

Answer

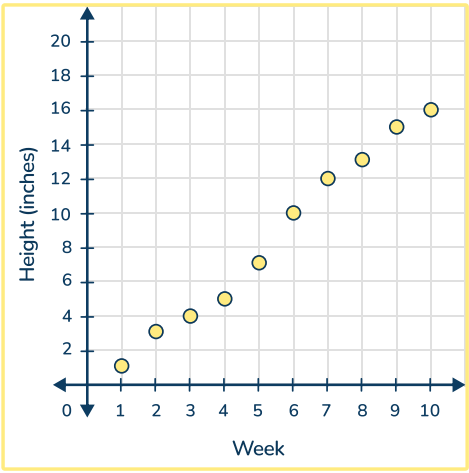
Answer Key - Unit 1

Item number	Correct answer	Standard(s)	DOK
1	D	5.OA.B.3	DOK 2
2	28	5.MD.C.4	DOK 3
3	Part A: $b = 15 \times 9$ $b = 135$ Part B: \$2 times the amount of feet cost = 2×45 Part C: \$90 for the border	5.OA.A.2 5.NF.B.4b	DOK 3
4	B, C, D	5.NF.B.5b	DOK 2
5	240	5.OA.1	DOK 1
6	0	5.NBT.B.5	DOK 1
7	Part A: $2 \times 9.87 = 19.74$ (watermelon) $3 \times 0.72 = 2.16$ (bunches of bananas) $19.74 + 2.16 = 21.90$ \$21.90 Part B: \$9.87 (watermelon) \$1.29 (avocado) $9.87 + 1.29 = 11.16$ The cost is \$11.16 – so no you will not have enough money because you only have \$11	5.NBT.B.7	DOK 3
8	$2\frac{5}{6}$	5.NF.B.4b	DOK 2

Answer Key - Unit 2

Item number	Correct answer	Standard(s)	DOK
1	C	5.NBT.B.7	DOK 1
2	Answers in the range: 86.25-86.34°	5.NBT.A.4	DOK 2
3	Part A: $28 + 102 = 130$ cubic ft Part B: $130 - 68 = 62$ cubic ft	5.MD.C.5	DOK 2
4	D, E	5.OA.A.2	DOK 2
5	(5, 6)	5.G.A.2	DOK 1
6	12,380.81	5.NBT.A.4	DOK 1
7	A, D, E	5.G.B.3	DOK 2
8	$\frac{4}{5}$	5.NF.B.3	DOK 2
9	Part A: $1\frac{1}{8} + 1\frac{1}{8} + 1\frac{5}{8} = 3\frac{7}{8}$ Part B: $2 - 1\frac{1}{8} = \frac{7}{8}$	5.MD.B.2	DOK 2
10	D	5.NF.B.4	DOK 2
11	A	5.NBT.A.3a	DOK 1

Answer Key - Unit 2

Item number	Correct answer	Standard(s)	DOK
12	<p>Students must recognize that they can create ordered pairs from the data in the table. The ordered pairs are as follows: (1,1) (2,3) (3,4) (4,5) (5,7) (6,10) (7,12) (8,13) (9,15) (10,16)</p> <p>Each ordered pair plotted on the coordinate grid.</p>  <p>Part B: The plant made the greatest amount of growth between week 5 and 6. This is shown on the grid as the points make the greatest vertical jump between those two weeks (7 inches to 10 inches)</p>	5.G.A.1 5.G.A.2	DOK 3

Answer Key - Unit 3

Item number	Correct answer	Standard(s)	DOK
1	Part A: 0.72 Part B: 72	5.NBT.A.2	DOK 1
2	Part A: $M = \frac{1}{2}$ $Q = \frac{1}{8}$ Part B: $\text{Area} = 1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8}$ Part C: $1\frac{7}{8}$	5.NF.B.4b	DOK 3
3	$2 \div \frac{1}{3} =$ $2 \times 3 = 6$ 6 weeks	5.NF.B.3	DOK 2
4	B	5.G.A.2	DOK 1
5	6 mm = 0.6cm 6 cm = 0.06 m 6000 m = 6 km	5.MD.A.1	DOK 1
6	Part A: $V = 5 \times 5 \times 5$ Part B: Volume = 125 cubic inches	5.MD.C.5b	DOK 2
7	$10\frac{1}{3} \times 8\frac{1}{2} = 87\frac{5}{6}$ $87\frac{5}{6}$ square feet	5.NF.B.4b	DOK 1
8	Part A: 1 gallon = 128 fluid oz 8 gallons = 768 fluid oz $5 \times 16 = 80$ oz $768 - 80 = 688$ fluid oz left Part B: $6 \times 16 = 96$ fluid oz $\frac{1}{2}$ gallon = 64 fluid oz $96 + 64 = 160$ fluid oz $688 - 160 = 528$ fluid oz left	5.OA.A.1 5.MD.A.1	DOK 3

Answer Key




Breakdown of Assessment by domain				
Operations and Algebraic thinking (OA)	Number and Operations in Base Ten (NBT)	Number and Operations - Fractions (NF)	Measurement and Data (MD)	Geometry (G)
17%	23%	23%	20%	17%

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