THIRD SPACE LEARNING

5th Grade CA CSS State Test

State Test Grade 5

Grade 5

Questions

Name: ..... Class: .....

Date: ..... Score: .....

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

Item	Size	Price
Bananas	1 bunch	$0.89
Blueberries	10 oz container	$5.99
Strawberries	16 oz container	$6.89
Avocado	1 avocado	$2.49
Watermelon	1 watermelon	$5.87
Oranges	4 lb bag	$8.75

1 How much would it cost to buy 2 avocados and 3 containers of blueberries?

A. $4.98
B. $20.46
C. $15.98
D. $22.95

2 What fraction of a centimeter is 5 millimeters?

A. $\frac{1}{5}$

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

C. $\frac{1}{25}$

D. $\frac{1}{100}$

---

3 A certain fraction is greater than 0 and less than 1. When that fraction is multiplied by 4, which point(s) on the number line could be the answer? Select all the correct answers.

A. Point A
B. Point B
C. Point C
D. Point D
E. Point E

4 Taliah found the product of 459 and 37. Her work is shown below. Her teacher was unable to read one of the numbers in her work.

			1 4	2 6	
			4	5	9
		×		3	7
		3,	2	1	3
+	1	3,		7	0
	1	6,	9	8	3

What number belongs in the box where the number the teacher can't read is?

A. 5
B. 6
C. 7
D. 8

---

5 Which expression shows '4 more than the product of 5 and 9'?

A. $5 - 9 \div 4$
B. $5 \times (9 + 4)$
C. $4 \times (5 + 9)$
D. $5 \times 9 + 4$

6 Kieran built a new garden bed in his backyard. He needs to fill it with $12\frac{1}{3}$ cubic yards of soil. He has already poured in $6\frac{5}{9}$ cubic yards of soil. How much more soil does he need to pour in to fill the garden bed? Answer in lowest terms.

A. $6\frac{2}{3}$ cubic yards

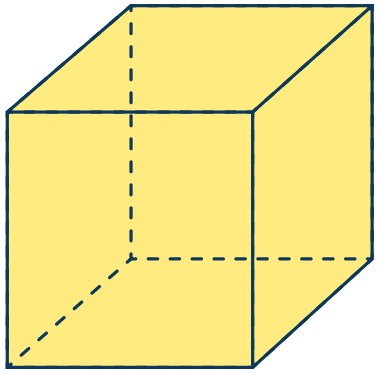
B. $5\frac{7}{9}$ cubic yards

C. $5\frac{2}{3}$ cubic yards

D. $6\frac{7}{9}$ cubic yards

---

7 Which expression represents the volume, in cubic inches, of this cube?



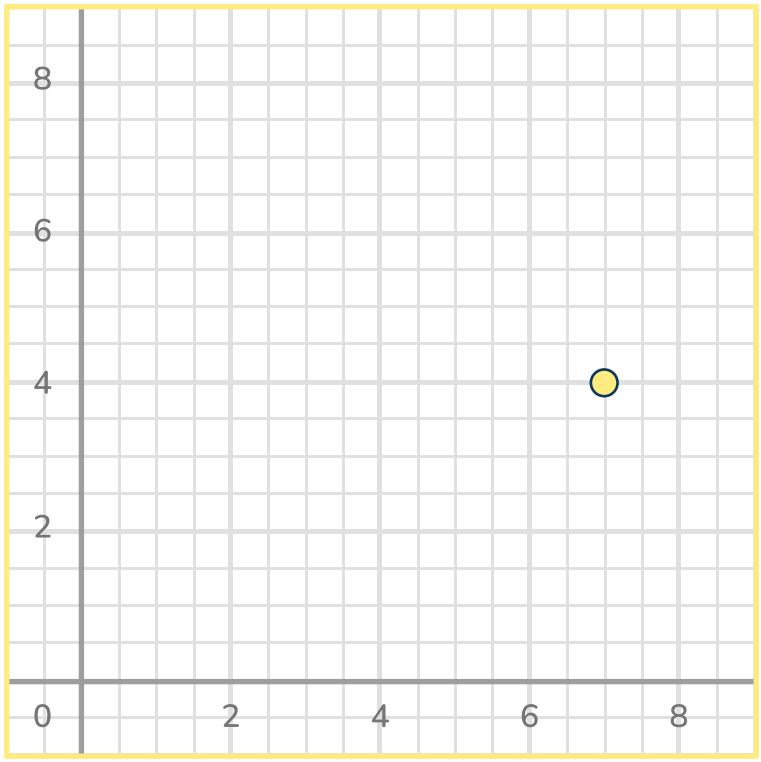
A. $7 \times 7 \times 7$

B. 7×6

C. $6 \times (7 + 7 + 7 + 7)$

D. $7 + 7 + 7 + 7 + 7 + 7$

8



What are the coordinates of the point shown?

A. (4, 7)
B. (6, 4)
C. (7, 4)
D. (8, 5)

---

9 Mark has been measuring a plant for a science project. The fern has grown $\frac{1}{4}$ of an inch each week and has grown a total of 2 inches taller. How many weeks has Mark been measuring this fern?

A. 8 weeks

B. $1\frac{1}{2}$ weeks

C. 4 weeks

D. 3 weeks

10 Yuriana and her 3 friends go out to eat at a restaurant. At the end of the meal, the total bill is $87.04. They decide to split the bill equally. How much will each friend pay?

A. $261.12
B. $29.01
C. $21.76
D. $348.16

---

11 Use the correct order of operations to solve the expression below:

$3 + 12 \times 6 - 35 + 9$

A. 64
B. 49
C. 45
D. 27

12 The table below shows the time it took four bikers to complete a mile.

Runner	Time (minutes)
1	6.04
2	7.034
3	7.34
4	6.4

Which comparison of these times is NOT correct?

A. $6.4 < 6.04$
B. $7.34 > 7.034$
C. $6.4 < 7.034$
D. $7.034 > 7.34$

---

13 Emma wrote down two patterns.

Pattern A: 0, 12, 24, 36, 48, 60...
Pattern B: 0, 3, 6, 9, 12, 15...

Which statement correctly compares Emma's patterns?

A. The numbers in Pattern B are $\frac{1}{4}$ the numbers in Pattern A.
B. The numbers in both patterns start odd, then become even.
C. The numbers in both patterns alternate between odd and even.
D. The numbers in Pattern B are 3 times more than the numbers in Pattern A.

14 Five chocolate bars are shared equally between 6 people. What fraction of chocolate bar will each person get?

A. $\frac{2}{3}$

B. $\frac{5}{6}$

C. $\frac{6}{5}$

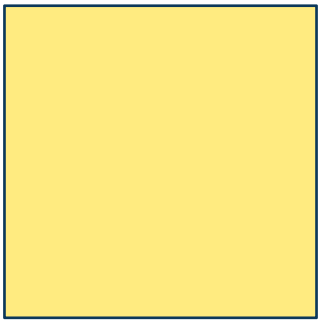
D. $\frac{3}{5}$

---

15 What number is two hundred and sixty two, and forty seven thousandths?

A. 262,047
B. 2,006.247
C. 262.047
D. 260.247

16



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

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

---

17 What is the correct way to write 510.404 in expanded form?

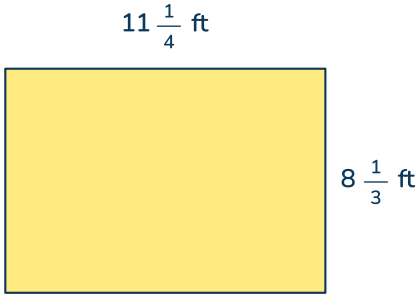
A. $5 \times 100 + 1 \times 10 + 4 \times (\frac{1}{10}) + 4 \times (\frac{1}{1{,}000})$

B. $5 \times 100 + 1 \times 1 + 4 \times (\frac{1}{10}) + 4 \times (\frac{1}{100})$

C. $5 \times 100 + 1 \times 10 + 4 \times 1 + 4 \times (\frac{1}{100})$

D. $5 \times (\frac{1}{100}) + 1 \times (\frac{1}{1}) + 4 \times (\frac{1}{10}) + 4 \times (\frac{1}{100})$

18 Trey is getting a new carpet installed in his bedroom. The diagram below shows the dimensions of his bedroom floor. If the carpet covers the entire floor, what is the area of the carpet?



A. $19\frac{2}{7}$ square feet

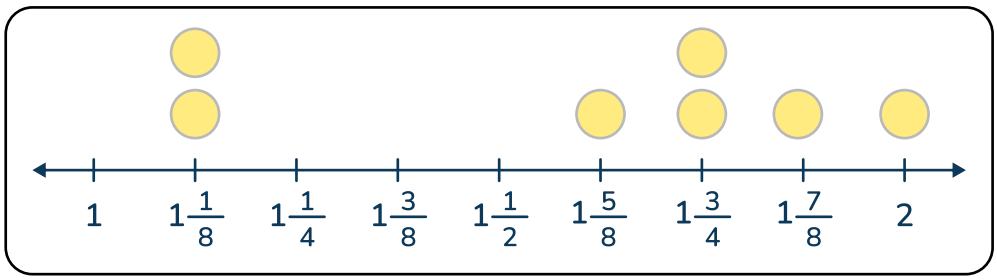
B. $93\frac{3}{4}$ square feet

C. $39\frac{1}{6}$ square feet

D. $76\frac{5}{6}$ square feet

---

19 The line plot below shows the lengths of Daniela's hair ribbons in inches. What is the total height, in inches, of the 3 longest hair ribbons?



A. $3\frac{7}{8}$ inches

B. $5\frac{1}{2}$ inches

C. $2\frac{5}{8}$ inches

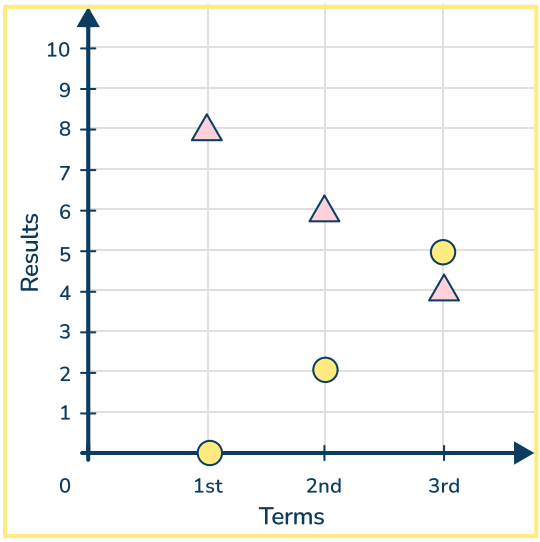
D. $5\frac{5}{8}$ inches

20 The rules for two patterns are below.

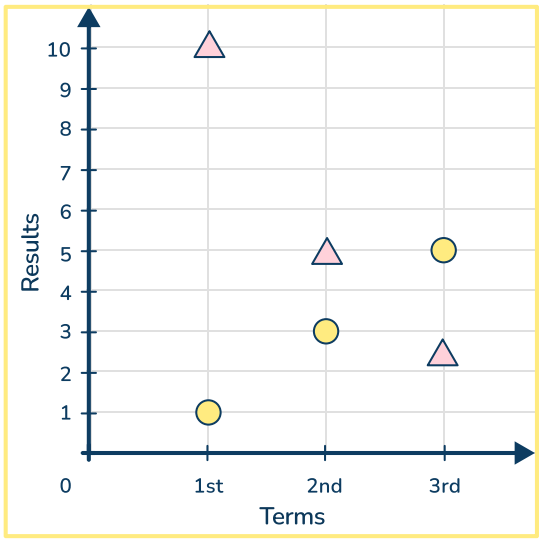
- Pattern J: Start at 3. Add 2.
- Pattern K: Start at 8. Multiply by $\frac{1}{2}$.

In the graphs, the circles represent Pattern J and the triangles represent Pattern K. Which graph is correct?

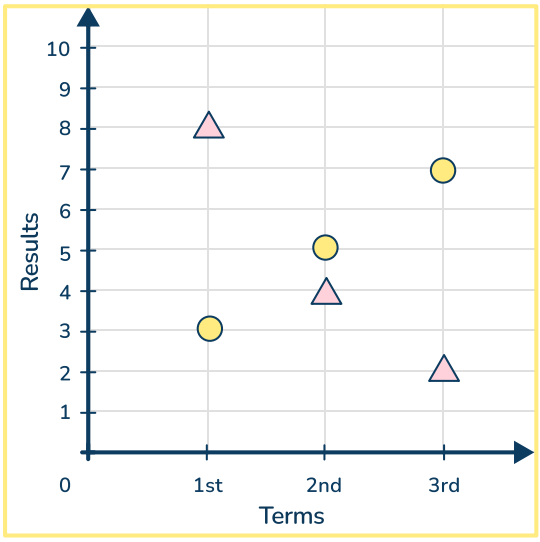
A.



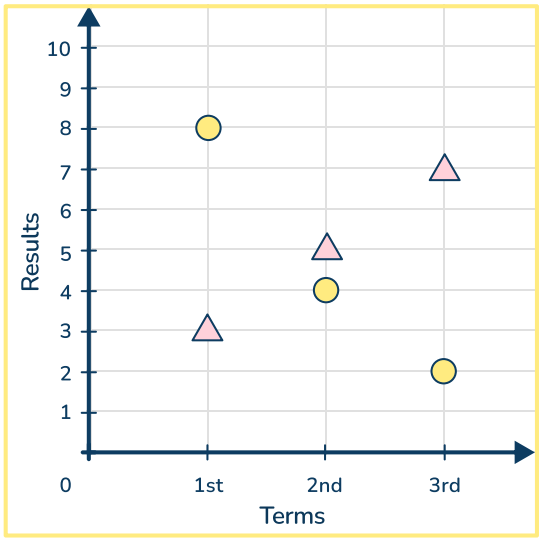
B.



C.



D.



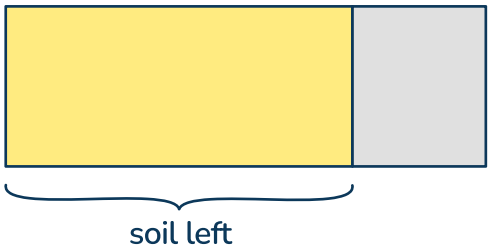
21 Emma was completing a science experiment. She had $\frac{2}{3}$ of a pound of soil. She uses $\frac{3}{4}$ of the soil. To find how much of a pound of soil she has left, Emma draws a model that represents 1 pound of sand.

Choose the model that shows the correct way Emma should solve this problem.

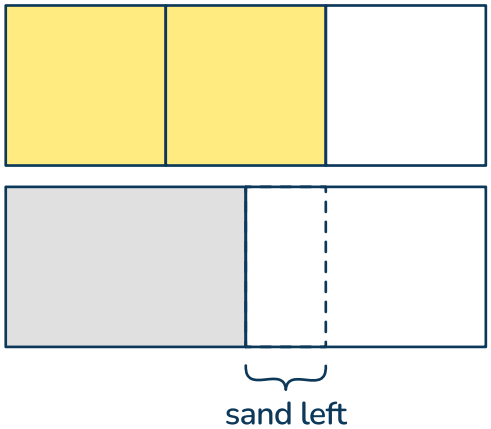
A.

B

C.



D.

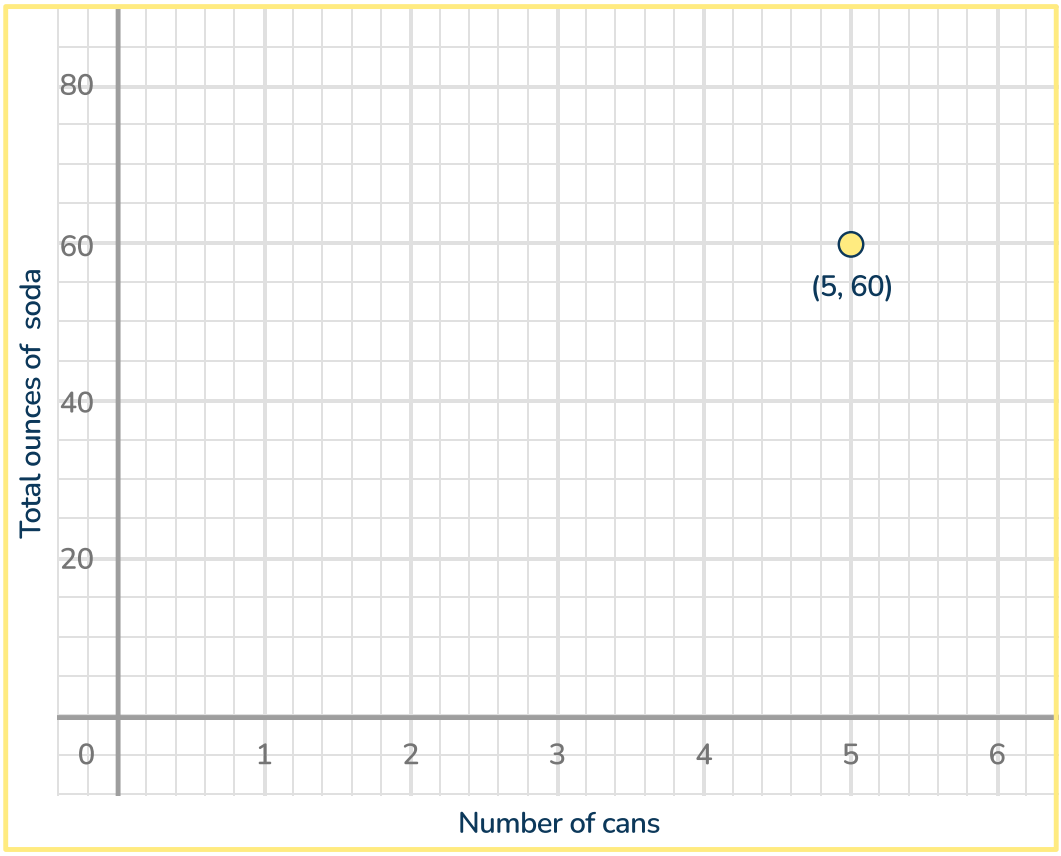


22 Round 20,492.052 to the nearest hundredth.

A. 20,500
B. 20,000
C. 20,492.05
D. 20,492.1

---

23 The graph shows the total number of ounces in any number of cans of soda.



Which statement correctly explains the meaning of (5, 60) on the graph?

A. 5 cans of soda weigh 60 ounces.
B. Each can of soda is 15 ounces.
C. 60 cans of soda have 5 total ounces.
D. There are 60 ounces in 5 cans of soda.

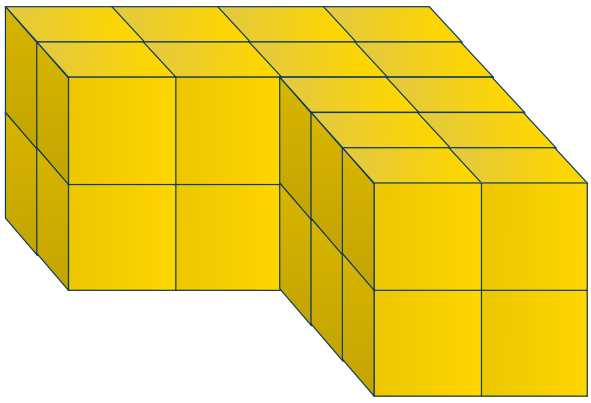
24 Solve the following equation.

$5(9 \times 11 - 7) + 3 \div 3 + 1$

A. 815
B. 446
C. 462
D. 365

---

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



A. 28
B. 16
C. 24
D. 20

26 A company has 609 pairs of sunglasses ready to sell. The sunglasses will be put in boxes of 19 and sold for $180.50 per box. How many full boxes of sunglasses can be made?

A. 33 boxes
B. 232 boxes
C. 323 boxes
D. 32 boxes

---

27 Phillip has pet reptiles. He feeds the reptiles based on the following rules.

- A lizard eats $\frac{1}{3}$ the amount of food as a turtle.
- A turtle eats $\frac{3}{4}$ the amount of food as a snake.

Based on the information above, which statement is true?

A. A lizard and a snake eat the same amount of food.
B. A snake eats more than a turtle.
C. A snake eats less than a turtle.
D. A snake eats less than a lizard.

28 Which shapes always have 4 equal sides? Select all the correct answers.

A. Square
B. Parallelogram
C. Rhombus
D. Rectangle
E. Trapezoid

---

29 Sean spent $3\frac{1}{3}$ hours reading over the weekend. How many minutes did Sean spend reading over the weekend?

A. 275 minutes
B. 200 minutes
C. 195 minutes
D. 320 minutes

30 Which equation equals 0.3?

A. $30 \times 10^2 = ?$
B. $300 \times 10^3 = ?$
C. $3{,}000 \div 10^3 = ?$
D. $30 \div 10^2 = ?$

---

31 A lemonade recipe requires $1\frac{1}{3}$ cups of lemon juice. How many cups of lemon juice would be needed to make $3\frac{1}{2}$ lemonade recipes?

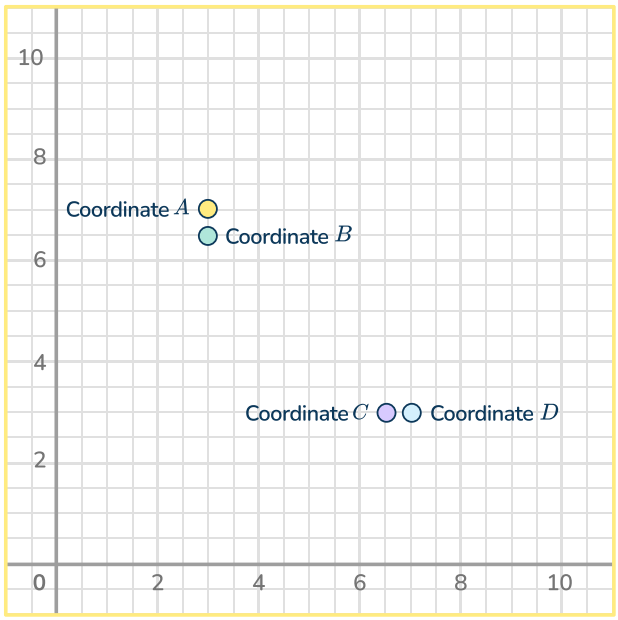
A. $4\frac{2}{3}$ cups

B. $3\frac{1}{4}$ cups

C. $4\frac{2}{5}$ cups

D. $3\frac{2}{3}$ cups

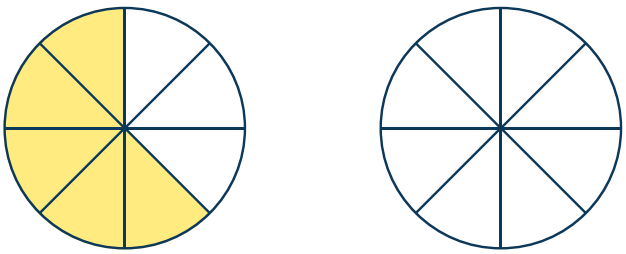
32 Which point shows (7, 3)?



A. Coordinate A
B. Coordinate B
C. Coordinate C
D. Coordinate D

---

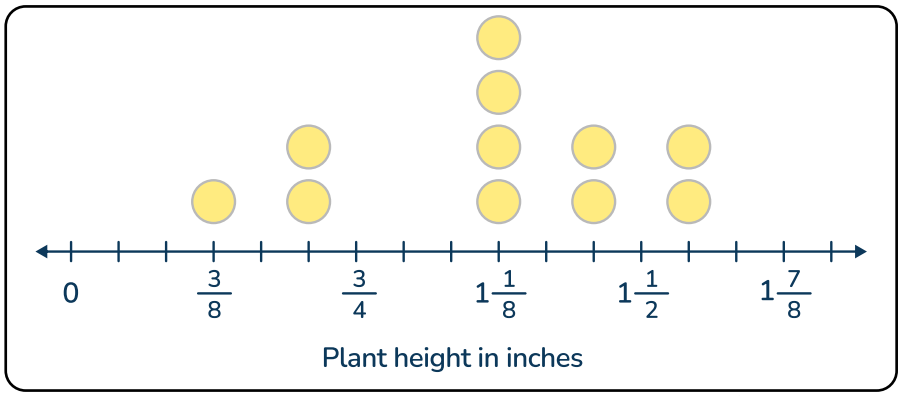
33 Serena and her best friend Blaire, baked two pumpkin pies. The shaded part of the circle represents the portion of the pies that Blaire ate. Serena ate $\frac{1}{2}$ of a pie more than Blaire.



How much pie was left over?

A. $\frac{1}{8}$
B. $\frac{3}{8}$
C. $\frac{1}{4}$
D. $\frac{8}{8}$ or 1 whole

34 A class is growing plants for a science experiment. Below is the height of the plants after one week.



What is the total height of the plants greater than $1\frac{1}{8}$ inches?

A. 6 inches

B. $1\frac{3}{8}$ inches

C. $\frac{2}{8}$ of an inch

D. 3 inches

---

35 Story: Cassie has $\frac{1}{3}$ of a cup of sugar. She uses it for her coffee over 5 days. How much sugar does she use each day?

Which expressions fit the story context? Select all the correct answers.

A. $\frac{1}{3} \times 3$

B. $\frac{1}{3} \div 5$

C. $5 \div 3\frac{1}{3}$

D. $5 \times \frac{1}{15}$

E. $\frac{1}{15} - \frac{1}{3}$

36 Complete the statement: 40 is ____ times the size of 400.

A. 100

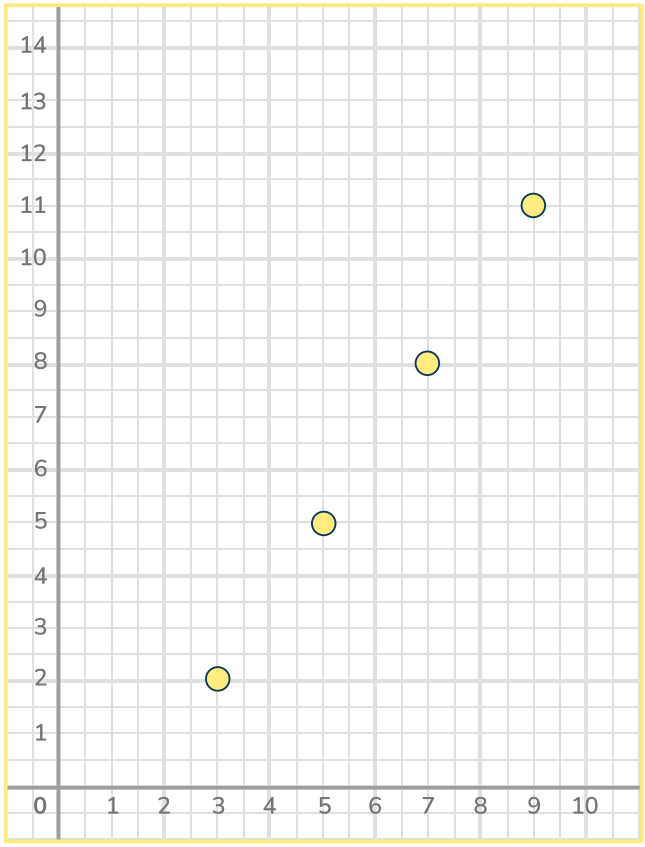
B. $\frac{1}{10}$

C. 10

D. $\frac{1}{100}$

---

37 The graph below shows ordered pairs that make up two patterns.



What are the rules for the two patterns shown by the ordered pairs?

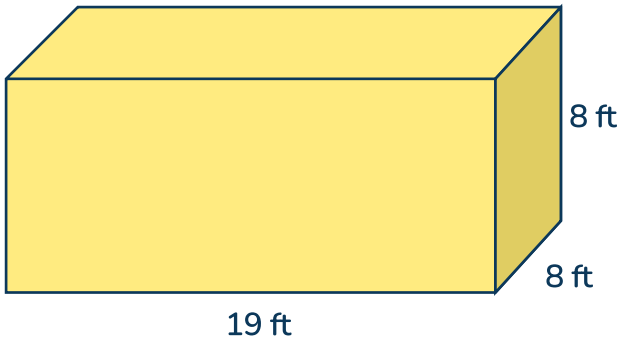
A. x-coordinate: Add 2
y-coordinate: Add 3

B. x-coordinate: Add 3
y-coordinate: Add 2

C. x-coordinate: Times 3
y-coordinate: Times 2

D. x-coordinate: Times 2
y-coordinate: Times 3

38 What is the volume of the rectangular prism?



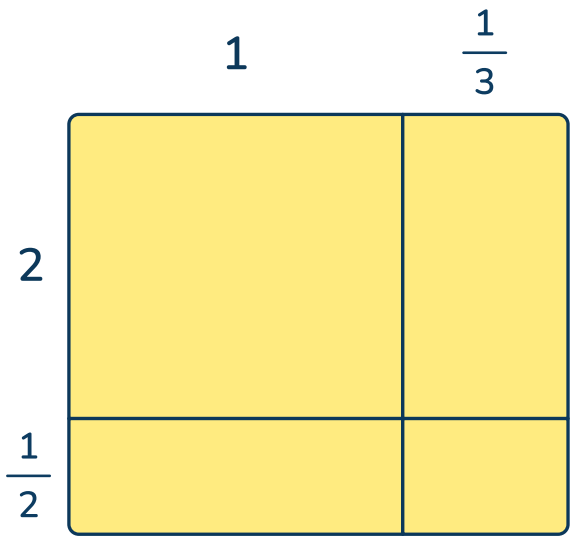
A. 35 square inches
B. 152 square inches
C. 1,216 cubic inches
D. 1,025 cubic inches

---

39 How many centimeters are in 1.2 meters?

A. 0.12 cm
B. 1.2 cm
C. 12 cm
D. 120 cm

40 Cameron is solving $1\frac{1}{3} \times 2\frac{1}{2}$. He draws the model below.



Which expression represents Diego's area model?

A. $1 + \frac{1}{2} + 1 + \frac{1}{2}$

B. $1 + 2 + 3 + 6$

C. $\frac{2}{12} + \frac{3}{12} + \frac{2}{12} + \frac{1}{12}$

D. $2 + \frac{2}{3} + \frac{1}{2} + \frac{1}{6}$

Standard: 5.NBT.3
DOK 3
Short Answer Response - 3 points

41 The temperature of a lake is about 84.7°. If the temperature was rounded to the nearest tenth, what are three possible actual temperatures of the lake?

Write the three numbers:

Explain how you solved.

_____

_____

_____

Item	KEY	Rationale
41	3 points	To receive 3 points, students need to write three correct numbers and provide a correct explanation that shows decimal place value understanding.
	2 points	To receive 2 points, students need to write at least 2 correct numbers AND provide a correct explanation that shows decimal place value understanding.
	1 point	To receive 1 point, students need to write at least 2 correct numbers OR provide a correct explanation that shows decimal place value understanding.
	0 points	Students will receive 0 points if they leave the response blank, or if they write two or more incorrect numbers AND fail to write a response that shows decimal place value understanding.

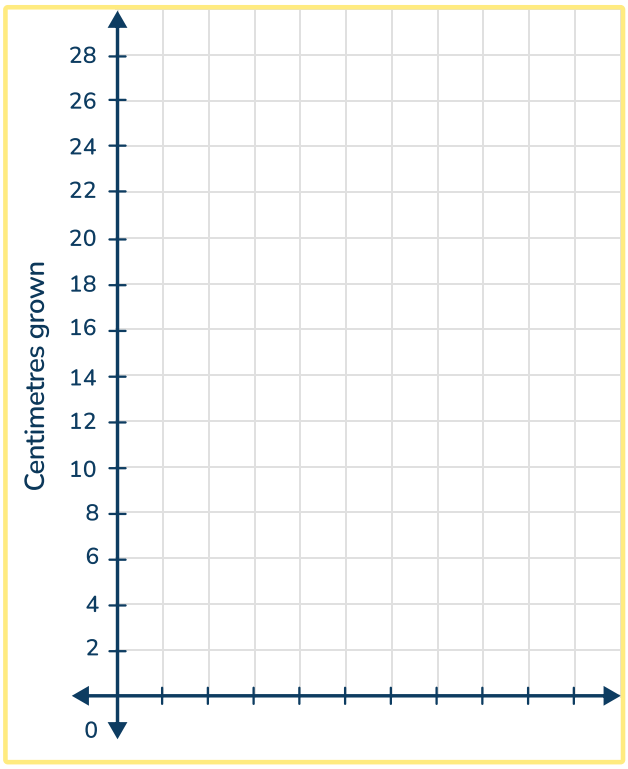
Extended response - 4 points
Standard: MA.5.GR.4.1, MA.5.GR.4.2
DOK 3

42 A zookeeper measured the total number of centimeters a baby giraffe grew each day for ten days, rounded to the nearest inch. The table shows the data the zookeeper collected.

Week	1	2	3	4	5	6	7	8	9	10
Height	3 in.	5 in.	8 in.	10 in.	14 in.	15 in.	18 in.	21 in.	23 in.	25 in.

Part A:

Plot each pair of numbers on the coordinate grid below.



Part B:

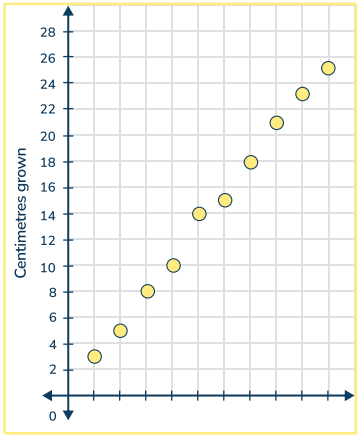
Between which two days did the baby giraffe grow the greatest number of centimeters? Use the completed grid to explain how you know.

_____

_____

_____

_____

Item	KEY	Rationale
42	4 points	In order to receive 4 points, students need to correctly answer **all parts** of Part A and Part B. Part B should include a thorough explanation of their answer. **Part A:** Students must recognize that they can create ordered pairs from the data in the table. The ordered pairs are as follows: (1,3) (2,5) (3,8) (4,10) (5,14) (6,15) (7,18) (8,21) (9,23) (10,25) Each ordered pair should be correctly plotted on the coordinate grid.  **Part B:** Students should correctly answer that the giraffe made the greatest amount of growth between days 4 and 5. They should also explain that this is shown on the grid as the points make the greatest vertical jump between those two weeks (10 centimeters to 14 centimeters)
	3 point	In order to receive 3 points, students may answer all parts of Part A and Part B, but they may not have a thorough explanation of how the completed coordinate grid shows the greatest amount of growth between day 4 and day 5.
	2 point	In order to receive 2 points, students may • make a mistake on Part A, which then causes them to make a math mistake on Part B, as well. (Example: incorrectly plot the points on the graph) • only answer one part correctly. OR • fail to explain in a way that lets the teacher know the student can interpret the completed grid correctly.
	1 point	To receive 1 point, students may get one part of the answer correct (such as plotting the points on the grid).
	0 points	To receive 0 points, the student must leave the answer blank or get no parts of the problem correct.

Extended response - 4 points
Standard: 5.NF.1, 5.NF.2
DOK 3

43 Maricio solved the following equation:

$$\frac{3}{6} + \frac{1}{3} = \frac{4}{9}$$

Is Maricio's answer reasonable? Decide without solving (using mental estimation or benchmark fractions to decide) and explain your thinking.

_____

_____

_____

_____

Item	KEY	Rationale
43	4 points	The student clearly explains that Maricio's answer is not reasonable. Student's response clearly shows fraction number sense, including (but not limited to)... • That $\frac{3}{6}$ is greater than $\frac{1}{2}$ and $\frac{1}{3}$ is less than $\frac{1}{2}$ • Therefore adding $\frac{1}{3}$ to $\frac{3}{6}$ should be more than $\frac{1}{2}$, not less OR • That $\frac{3}{6}$ is $\frac{1}{2}$ away from 1 whole • That $\frac{1}{3}$ is $\frac{2}{3}$ away from 1 whole • Therefore adding $\frac{1}{3}$(which is a little smaller than $\frac{1}{2}$),will be a sum close to 1 whole, which $\frac{4}{9}$ is not
	3 points	The student explains that Tyrese's answer is not reasonable. The student's response clearly shows fraction number sense, including (but not limited to) the examples above, however, the student makes 1 mistake or leaves out 1 part.
	2 points	The student states that Tyrese's answer is not reasonable. Student's response shows some fraction number sense (correct benchmarks or estimation value for individual fractions), but the student does not connect this to the overall equation or parts of the explanation are unclear.
	1 point	The student's response shows some fraction number sense (correct benchmarks or estimation value for individual fractions), but the student makes 1 or 2 mistakes AND parts of the explanation are unclear. OR Student explains that Tyrese added the denominators when he should have found common denominators, which is not the correct algorithm. However, the student does not give an explanation that shows fraction number sense.
	0 points	The student leaves the response blank. OR The student makes more than 2 mistakes when estimating or using fraction benchmarks. OR The student's explanation shows little to no fraction number sense.

Answer Key - Multiple Choice

Item number	Correct answer	Domain	Target	DOK	CCSS-MC
1	D	**NBT**	**D**	DOK 2	**5.NBT.7**
2	B	**MD**	**G**	DOK 1	**5.MD.1**
3	B, C, D	**NF**	**F**	DOK 3	**5.NF.5a, 5.NF.5b**
4	C	**NBT**	**D**	DOK 2	**5.NBT.5**
5	D	**OA**	**A**	DOK 1	**5.OA.2**
6	B	**NF**	**E**	DOK 2	**5.NF.1, 5.NF.2**
7	A	**MD**	**I**	DOK 1	**5.MD.3a, 5.MD.3b, 5.MD.4, 5.MD.5a 5.MD.5b**
8	C	**G**	**J**	DOK 1	**5.G.1**
9	A	**NF**	**F**	DOK 2	**5.NF.7.b, 5.NF.7.c**
10	C	**NBT**	**D**	DOK 2	**5.NBT.7**
11	B	**OA**	**A**	DOK 1	**5.NBT.7**
12	A, D	**NBT**	**C**	DOK 2	**5.NBT.3b**
13	A	**OA**	**B**	DOK 3	**5.OA.3**
14	B	**NF**	**F**	DOK 2	**5.NF.3**
15	C	**NBT**	**C**	DOK 1	**5.NBT.3a**
16	A, B, C, D, E	**G**	**K**	DOK 2	**5.G.3,** 5.G.4
17	A	**NBT**	**C**	DOK 1	**5.NBT.3a**
18	B	**NF**	**F**	DOK 2	**5.NF.4b**
19	D	**MD, NF**	**F, H**	DOK 2	**5.MD.2, 5.NF.1**

Item number	Correct answer	Domain	Target	DOK	CCSS-MC
20	C	**OA**	**B**	DOK 3	**5.OA.3**
21	A	**NF**	**F**	DOK 2	**5.NF.6**
22	C	**NBT**	**C**	DOK 1	**5.NBT.4**
23	A	**G**	**J**	DOK 2	**5.G.2**
24	C	**OA**	**A**	DOK 1	**5.OA.1**
25	A	**MD**	**I**	DOK 2	**5.MD.5c**
26	A	**NBT**	**D**	DOK 2	**5.NBT.6**
27	B	**NF**	**F**	DOK 3	**5.NF.5**
28	A, C	**G**	**K**	DOK 1	**5.G.3,** 5.G.4
29	B	**MD**	**G**	DOK 2	**5.MD.1**
30	D	**NBT**	**C**	DOK 1	**5.NBT.2**
31	A	**NF**	**F**	DOK 2	5.NF.3, 5.NF.4a, **5.NF.6**
32	D	**G**	**J**	DOK 1	**5.G.1**
33	A	**NF**	**E**	DOK 2	**5.NF.1, 5.NF.2**
34	A	**MD**	**H**	DOK 2	**5.MD.2**
35	B	**NF**	**F**	DOK 2	**5.NF.7a**
36	B	**NBT**	**C**	DOK 1	**5.NBT.1**
37	A	**OA**	**B**	DOK 3	**5.NBT.1**
38	C	**MD**	**I**	DOK 1	**5.MD.5b**
39	D	**MD**	**G**	DOK 1	**5.MD.1**
40	D	**NF**	**F**	DOK 2	**5.NF.4b**

ANSWERS SORTED BY CCSS STRAND

OA			
5	D	**5.OA.2**	DOK 1
11	B	**5.OA.1**	DOK 1
13	A	**5.OA.3**	DOK 3
20	C	**5.OA.3**	DOK 3
24	C	**5.OA.1**	DOK 1
37	A	**5.OA.3**	DOK 3

NBT			
1	D	**5.NBT.7**	DOK 2
4	C	**5.NBT.5**	DOK 2
10	C	**5.NBT.7**	DOK 2
12	A, D	**5.NBT.3.b**	DOK 2
15	C	**5.NBT.3.a**	DOK 1
17	A	**5.NBT.3.a**	DOK 2
22	C	**5.NBT.4**	DOK 1
26	A	**5.NBT.6**	DOK 2
30	D	**5.NBT.2**	DOK 1
36	B	**5.NBT.1**	DOK 1
41	Short answer response	**5.NBT.3**	DOK 3

NF			
3	B, C, D	5.NF.5.a, **5.NF.5.b***	DOK 3
6	B	**5.NF.1, 5.NF.2**	DOK 2
9	A	5.NF.7.b, **5.NF.7.c***	DOK 2
14	B	**5.NF.3**	DOK 2
18	B	**5.NF.4.b**	DOK 2
21	A	**5.NF.6**	DOK 2
27	B	**5.NF.5**	DOK 3
31	A	5.NF.3, 5.NF.4.a, **5.NF.6**	DOK 2
33	A	5.NF.1, **5.NF.2**	DOK 2
35	B	**5.NF.7a**	DOK 2
40	D	**5.NF.4b**	DOK 2
43	Extended Response	**5.NF.1, 5.NF.2**	DOK 3

MD			
2	B	**5.MD.1**	DOK 3
7	A	5.MD.3.a, 5.MD.3.b, **5.MD.4,** 5.MD.5.a 5.MD.5.b	DOK 1
19	D	**5.MD.2, 5.NF.1**	DOK 2
25	A	**5.MD.5.c**	DOK 2
29	B	**5.MD.1**	DOK 2
34	A	**5.MD.2**	DOK 2
38	C	**5.MD.5b**	DOK 1
39	D	**5.MD.1**	DOK 1

G			
8	C	**5.G.1**	DOK 1
16	A, B, C, D, E	**5.G.3*,** 5.G.4	DOK 2
23	A	**5.G.2**	DOK 2
28	A, C	**5.G.3*,** 5.G.4	DOK 1
32	D	**5.G.1**	DOK 1
42	Extended Response	**5.G.1, 5.G.2**	DOK 3

Do you have a group of students who need a boost in math?

Each student could receive a personalized lesson every week from our specialist one-on-one math tutors.

- Differentiated instruction for each student
- Aligned to your state's standard
- Scaffolded learning to close gaps

Speak to us

thirdspacelearning.com/us/

+1 929-298-4593

hello@thirdspacelearning.com

THIRD SPACE LEARNING