THIRD SPACE LEARNING

5th Grade FL BEST 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	$1.32
Blueberries	10 oz container	$4.29
Oranges	4 lb bag	$5.30
Strawberries	16 oz container	$3.89
Avocado	1 avocado	$1.39
Watermelon	1 watermelon	$7.25

1 How much would it cost to buy 4 avocados, 1 container of blueberries, and 1 container of strawberries?

A. $9.57
B. $10.96
C. $13.74
D. $12.64

2 What fraction of a meter is 25 centimeters?

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

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

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

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

---

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

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

4 Camilla found the product of 428 and 37. Her work is shown below. Her teacher was unable to read one of the numbers in her work.

			^{1}	^{2}5	
			4	2	8
		×		3	7
		^{1}2	^{1}9	9	6
+	1	2		4	0
	1	5	8	3	6

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

A. 9
B. 8
C. 7
D. 6

---

5 Which expression shows '8 less than the product of 6 and 3'?

A. $8 - 6 \times 3$
B. $(8 - 6) \times 3$
C. $6 \div 3 - 8$
D. $6 \times 3 - 8$

6 Olivia built a new garden bed in her backyard. She needs to fill it with $6\frac{1}{2}$ cubic yards of soil. She has already poured in $4\frac{7}{10}$ cubic yards of soil. How much more soil does she need to pour in to fill the garden bed? Answer in simplest terms.

A. $1\frac{4}{5}$ cubic yards

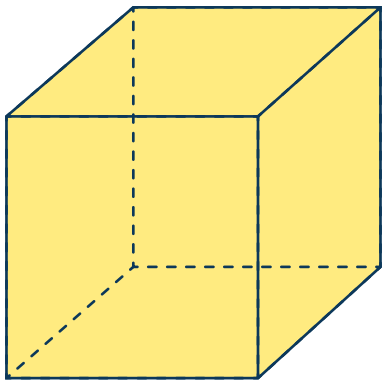
B. $2\frac{1}{5}$ cubic yards

C. $11\frac{1}{5}$ cubic yards

D. $10\frac{8}{12}$ cubic yards

---

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



4 feet

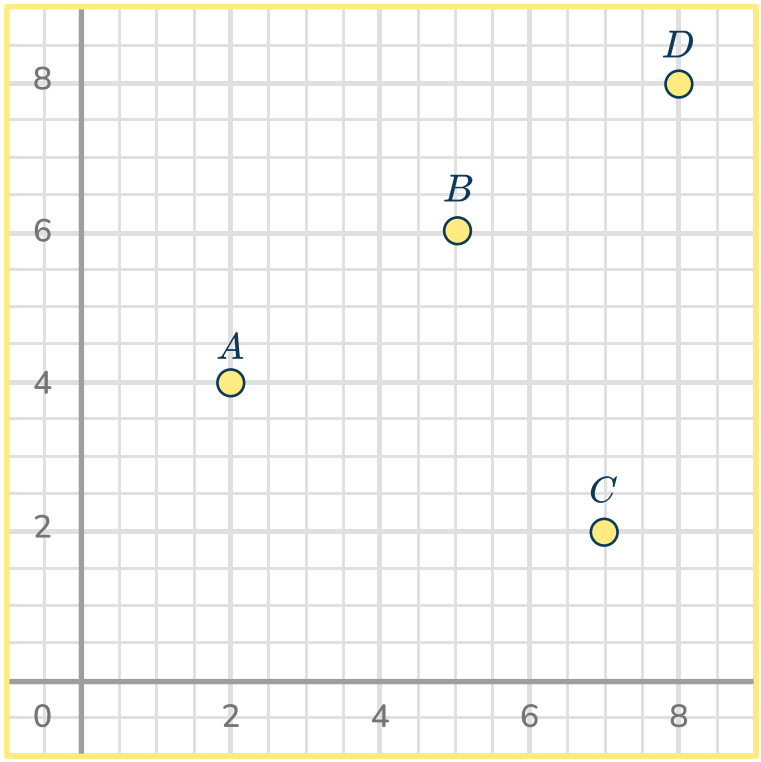
A. 4×5

B. $4 \times 4 \times 4$

C. 4×6

D. $4 + 4 + 4 + 4 + 4 + 4$

8



What are the coordinates of point C?

A. (6,2)
B. (7,3)
C. (5,6)
D. (7,2)

---

9 Samantha has 8 yards of ribbon. She wants to cut the ribbon into pieces that are each $\frac{1}{4}$ of a yard long. How many pieces of ribbon will Samantha have after cutting all 8 yards?

A. $\frac{1}{32}$ pieces

B. $\frac{1}{24}$ pieces

C. 32 pieces

D. 24 pieces

10 Taylor and her 3 friends go out to eat at a restaurant. At the end of the meal, the total bill is $85.84. They decide to split the bill equally. How much will each friend pay?

A. $21.46
B. $28.61
C. $22.16
D. $343.36

---

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

$5 + 8 \times 6 - 21 + 2$

A. 59
B. 34
C. 26
D. 32

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

Runner	Time (minutes)
1	6.48
2	7.095
3	7.19
4	6.5

Which shows the correct order of the runners' times from fastest to slowest?

A. Runner 4, Runner 1, Runner 2, Runner 3
B. Runner 3, Runner 2, Runner 4, Runner 1
C. Runner 1, Runner 4, Runner 3, Runner 2
D. Runner 1, Runner 4, Runner 2, Runner 3

13 A rectangular sandbox has a length of 9 feet and a width of 3 feet. If the volume of sand needed to fill the sandbox is 108 cubic feet, what is the height of the sandbox?

A. 27 feet
B. 9 feet
C. 4 feet
D. 12 feet

14 Three chocolate bars are shared equally between 7 people. What fraction of a chocolate bar will each person get?

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

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

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

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

---

15 What number is four hundred and eight, and one hundred twenty-nine thousandths?

A. 408,129
B. 4,008.129
C. 408.129
D. 408.1029

16

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

A. rectangle
B. square
C. parallelogram
D. quadrilateral
E. rhombus

---

17 What is the correct way to write 45.903 in expanded form?

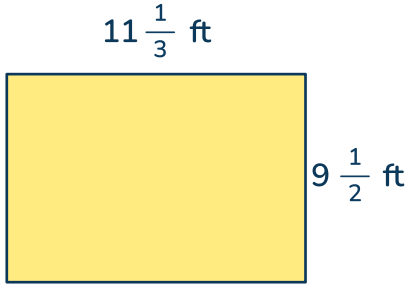
A. $4 \times 10 + 5 \times 1 + 9 \times (\frac{1}{10}) + 3 \times (\frac{1}{1,000})$

B. $4 \times 10 + 5 \times 1 + 9 \times (\frac{1}{10}) + 3 \times (\frac{1}{100})$

C. $4 \times 100 + 5 \times 10 + 9 \times 1 + 3 \times (\frac{1}{100})$

D. $4 \times (\frac{1}{10}) + 5 \times (\frac{1}{1}) + 9 \times (\frac{1}{10}) + 3 \times (\frac{1}{1,000})$

18 Jordan 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, what is the area of the carpet?



A. $107\frac{2}{3}$ square feet

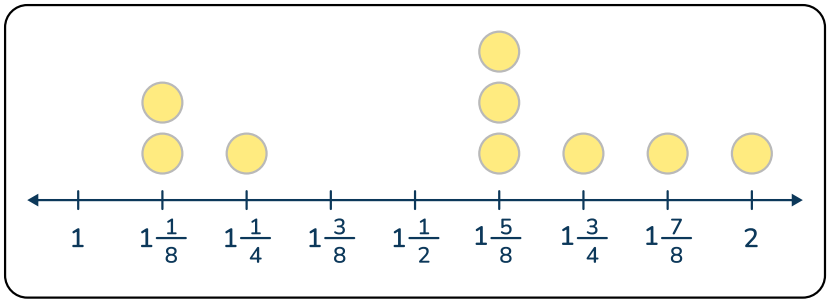
B. $99\frac{1}{6}$ square feet

C. $83\frac{1}{3}$ square feet

D. $41\frac{2}{3}$ square feet

---

19 The line plot below shows the lengths of Jillian's ribbons in feet. What is the total length, in feet, of the 3 longest ribbons?



A. $3\frac{5}{8}$ inches

B. $4\frac{7}{8}$ inches

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

D. $3\frac{1}{2}$ inches

20 What is the rule for the input/output table?

Input	1	3	5	7
Output	4	12	20	28

A. add 2
B. add 3
C. multiply by 3
D. multiply by 4

---

21 Select all correct answers. The number 32.504 can be expressed as:

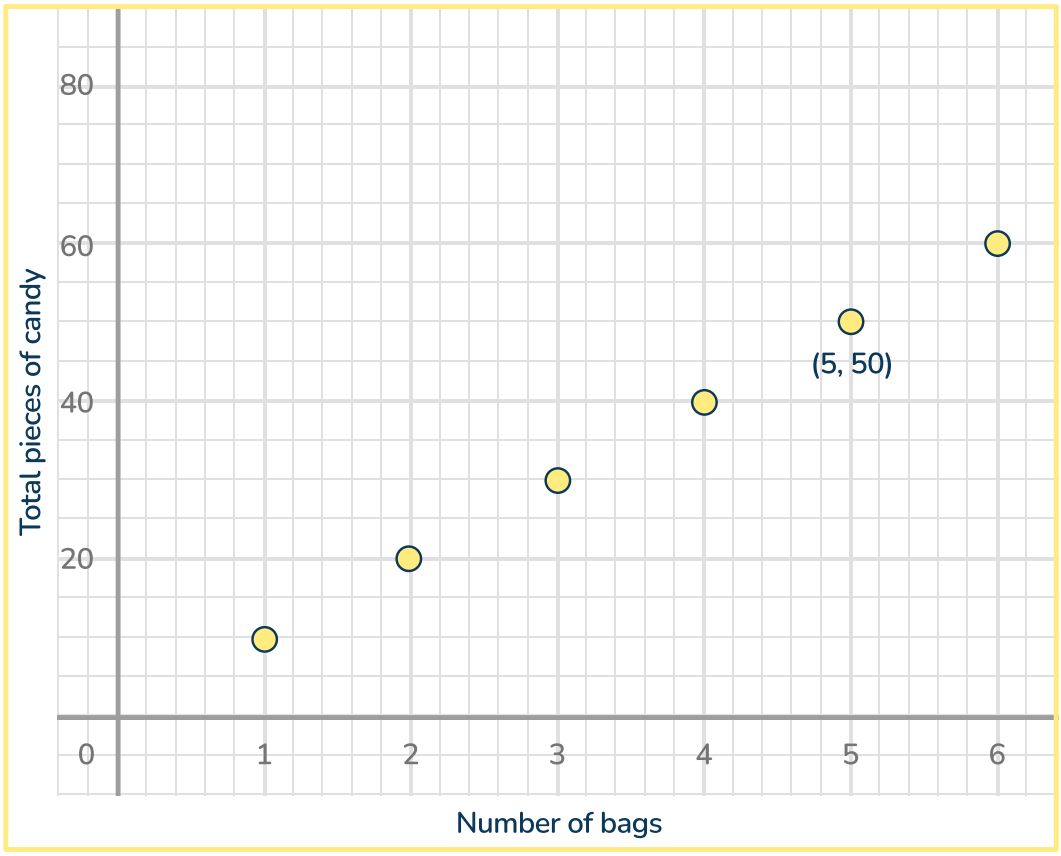
A. 3 tens + 2 ones + 5 tenths + 4 hundredths
B. 32 tens + 504 hundredths
C. 3 tens + 2 ones + 5 tenths + 4 thousandths
D. 32 ones + 504 thousandths

22 Round 865.237 to the nearest hundredth.

A. 900
B. 865.24
C. 865.200
D. 865.23

---

23 The graph shows the total number of pieces of candy in any number of bags.



Which statement correctly explains the meaning of (5, 50) on the graph?

A. Each bag contains 50 pieces of candy.
B. 5 bags contain 50 pieces of candy.
C. 50 bags contain 5 pieces of candy.
D. There are 60 pieces of candy in 5 bags.

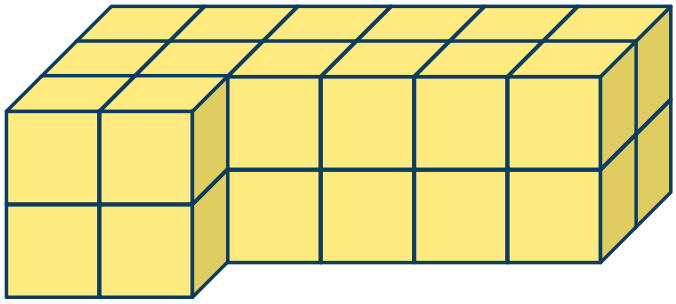
24 Find the value of the expression.

$(11 \times 4 + 6) - 8 \div 4 + 3$

A. 111
B. 13.5
C. 51
D. 55

---

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



A. 26
B. 28
C. 24
D. 21

26 A family is planning a cross-country road trip that covers 2,791 miles. They want to drive the same distance each day for 12 days. How many miles will they drive each day?

A. 232 miles

B. 233 miles

C. $232\frac{7}{12}$ miles

D. 232 R 7 miles

---

27 Gigi has $4\frac{1}{2}$ yards of fabric. She uses $\frac{2}{5}$ of the fabric to make a scarf. How much fabric did Gigi use for the scarf?

A. $4\frac{1}{10}$ yards

B. $\frac{9}{10}$ yard

C. $\frac{4}{5}$ yard

D. $1\frac{4}{5}$ yards

28 Which of the following shapes has an apex? Select all correct answers.

A. Right pyramids
B. Right circular cylinders
C. Right prisms
D. Right circular cones
E. Spheres

29 Evan spent $2\frac{1}{4}$ hours swimming. How many minutes did Evan spend swimming?

A. 120 minutes
B. 135 minutes
C. 130 minutes
D. 140 minutes

30 What is $19.5 \div 0.1$?

A. 1.95
B. 1,950
C. 195
D. 19.5

---

31 A pancake recipe calls for $1\frac{2}{3}$ cups of flour. How many cups of flour are needed to make $4\frac{1}{2}$ batches of pancakes?

A. $7\frac{1}{2}$ cups

B. $6\frac{1}{6}$ cups

C. $4\frac{2}{6}$ cups

D. $2\frac{5}{6}$ cups

32 Which statement correctly compares 0.058 and 58?

A. 0.058 is 10 times the value of 58.

B. 0.058 is $\frac{1}{10}$ the value of 58.

C. 0.058 is $\frac{1}{100}$ the value of 58.

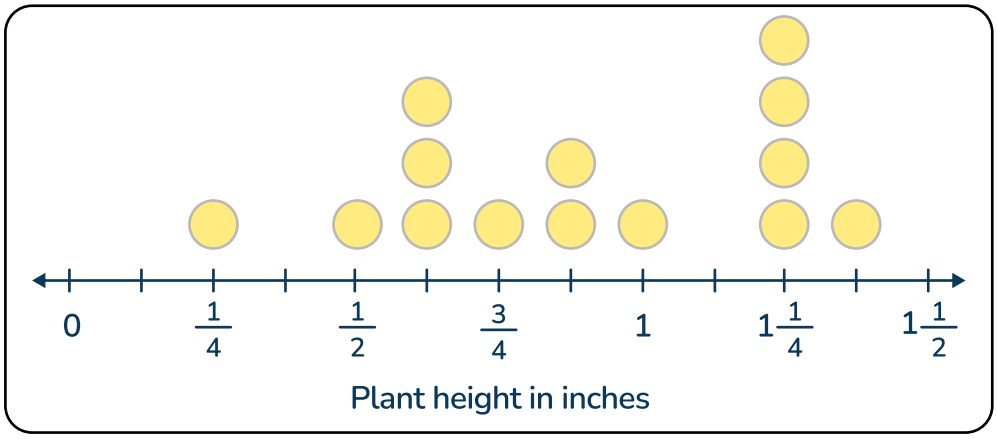
D. 0.058 is $\frac{1}{1000}$ the value of 58.

---

33 A bookshop orders 42 boxes each containing 25 mystery novels and 27 boxes each containing 30 science fiction novels. How many more mystery novels did the shop order than science fiction novels?

A. 124
B. 10
C. 240
D. 190

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



What is the difference between the shortest and tallest plant?

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

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

C. $\frac{3}{4}$ of an inch

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

---

35 Story: Kai has $\frac{7}{8}$ of a cup of puppy food. He uses it to feed 3 puppies equally. How much food does each puppy get?

Which expression fits the story context?

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

B. $3 \times \frac{7}{8}$

C. $\frac{7}{8} \div 3$

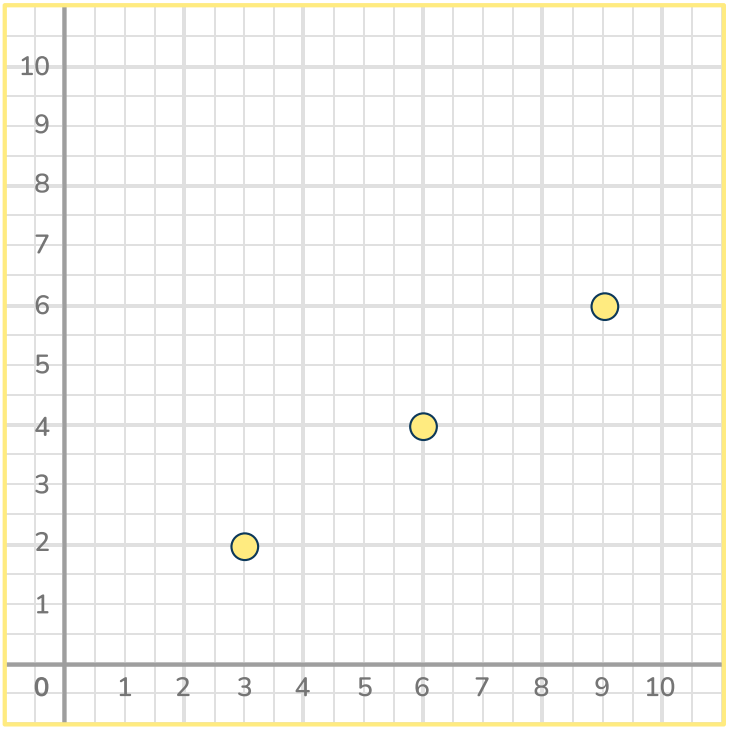
D. $3 \div \frac{7}{8}$

36 Which equation is false?

A. $4.2 + 3 \times 5 = 21 - 1.8$
B. $(8.5 + 12) \times 2 = 6 \times 8 - 7$
C. $5 \times (42 \div 7) = 8 \times 3 + 6$
D. $(5 + 3) \times 3 = 18 - 6 \times 2$

---

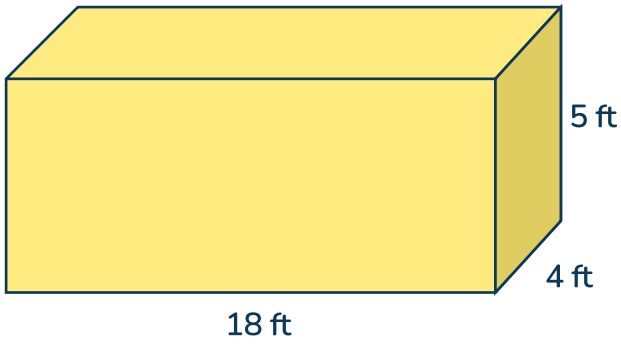
37 The graph below shows ordered pairs that make up two patterns.



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

A. x-coordinate: Add 3
y-coordinate: Add 2
B. x-coordinate: Add 2
y-coordinate: Add 3
C. x-coordinate: Multiply by 3
y-coordinate: Multiply by 2
D. x-coordinate: Multiply by 2
y-coordinate: Multiply by 2

38 What is the volume of the rectangular prism?



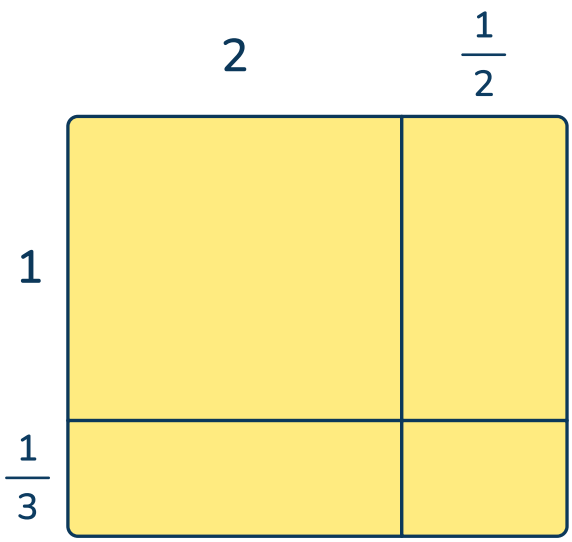
A. 27 square feet
B. 360 cubic feet
C. 90 square feet
D. 162 cubic feet

---

39 Anya is creating a banner for a school event. She needs 6.5 meters of material to make the banner. She currently has 220 centimeters of material. How many more centimeters of material does she need?

A. 650 centimeters
B. 4.3 meters
C. 213.5 centimeters
D. 430 centimeters

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



Which expression represents Victor's area model?

A. $2 + 1 + \frac{1}{3} + \frac{1}{2}$

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

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

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

Standard: MA.5.NSO.1.2, MA.5.NSO.1.5
DOK 3
Short Answer Response - 3 points

41 The height of a tree is about 18.9 feet. If the actual height was rounded to the nearest tenth, what are three possible actual heights of the tree?

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 write two or more incorrect numbers AND fail to write a response that shows decimal place value understanding.

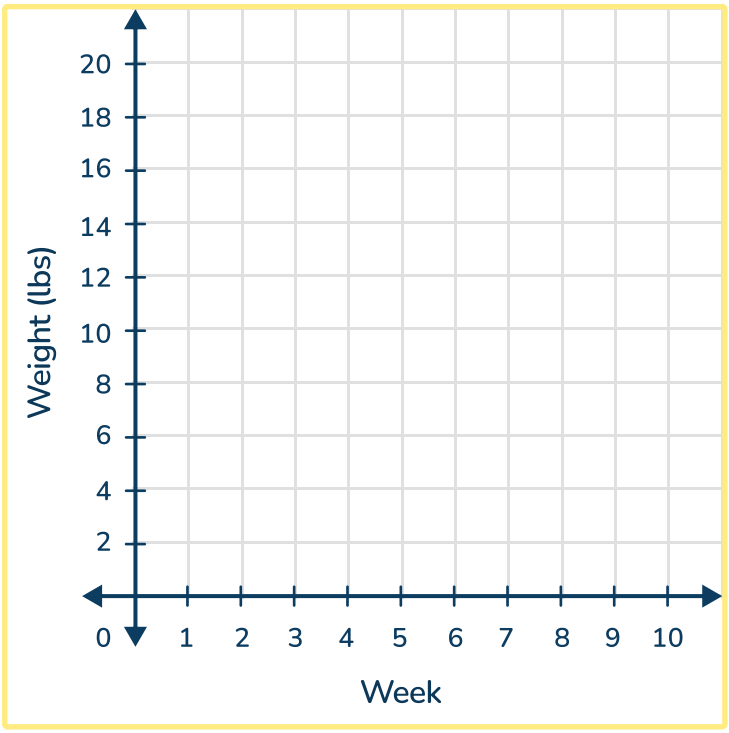
Extended response - 4 points
Standard: MA.5.GR.4.1, MA.5.GR.4.2
DOK 3

42 Violet adopted a new puppy and then measured the weight of the puppy each week for ten weeks, rounded to the nearest pound. The table shows the data Violet collected.

Week	1	2	3	4	5	6	7	8	9	10
Weight	6	7	9	10	11	12	15	16	17	18

Part A:

Plot each pair of numbers on the coordinate grid below.



Part B:

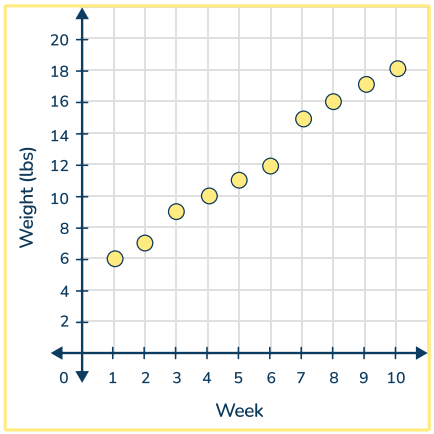
Between which two weeks did the puppy make the greatest amount of growth? Use the completed grid to explain how you know.

_____

_____

_____

_____

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: (1,6) (2,7) (3,9) (4,10) (5,11) (6,12) (7,15) (8,16) (9,17) (10,18) Each ordered pair should be correctly plotted on the coordinate grid.  **Part B:** Students should correctly answer that the puppy made the greatest amount of growth between week 6 and 7. They should also explain that this is shown on the grid as the points make the greatest vertical jump between those two weeks (12 lbs to 15 lbs)
	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 weeks 6 and 7.
	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: MA.5.FR.2.1, MA.5.AR.1.2
DOK 3

43 Beckham solved the following equation:

$$\frac{1}{5} + \frac{3}{4} = \frac{4}{9}$$

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

_____

_____

_____

_____

Item	KEY	Rationale
43	4 points	Student clearly explains that Beckham's answer is not reasonable. Student's response clearly shows fraction number sense, including (but not limited to)... • That $\frac{3}{4}$ is greater than $\frac{1}{2}$ and $\frac{3}{9}$ is less than $\frac{1}{2}$ • Therefore adding $\frac{1}{5}$ to $\frac{3}{4}$ should be more than $\frac{1}{2}$, not less OR • That $\frac{3}{4}$ is $\frac{1}{4}$ away from 1 whole • That $\frac{3}{9}$ is $\frac{5}{9}$ away from 1 whole Therefore adding $\frac{1}{5}$ will be a sum close to 1 whole, which $\frac{3}{9}$ is not
	3 points	Student explains that Beckham's answer is not reasonable. 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	Student states that Beckham'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	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 Beckham 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	Standard(s)	DOK
1	C	**MA.5.M.2.1, MA.5.NSO.2.3**	DOK 2
2	B	**MA.5.M.1.1**	DOK 2
3	B, C	**MA.5.FR.2.3**	DOK 2
4	B	**MA.5.NSO.2.1**	DOK 2
5	D	**MA.5.AR.2.1**	DOK 1
6	A	**MA.5.FR.2.1, MA.5.AR.1.2**	DOK 2
7	B	**MA.5.GR.3.1, MA.5.GR.3.2, MA.5.GR.3.3**	DOK 1
8	D	**MA.5.GR.4.1**	DOK 1
9	C	**MA.5.AR.1.3, MA.5.FR.2.4**	DOK 2
10	A	**MA.5.NSO.2.4**	DOK 2
11	B	**MA.5.AR.2.2**	DOK `
12	D	**MA.5.NSO.1.4**	DOK 2
13	C	**MA.5.GR.3.3**	DOK 2
14	A	**MA.5.FR.1.1**	DOK 2
15	C	**MA.5.NSO.1.2**	DOK 1
16	A, C, D	**MA.5.GR.1.1**	DOK 2
17	A	**MA.5.NSO.1.2**	DOK 1
18	A	**MA.5.FR.2.2, MA.5.GR.2.1, MA.5.AR.1.2**	DOK 2
19	C	**MA.5.DP.1.1, MA.5.FR.2.1**	DOK 2

Item number	Correct answer	Standard(s)	DOK
20	D	**MA.5.AR.3.2**	DOK 2
21	C, D	**MA.5.NSO.1.3**	DOK 2
22	B	**MA.5.NSO.1.5**	DOK 1
23	B	**MA.5.GR.4.2**	DOK 2
24	C	**MA.5.AR.2.2**	DOK 1
25	B	**MA.5.GR.3.1**	DOK 1
26	C	**MA.5.NSO.2.2**	DOK 2
27	D	**MA.5.FR.2.2, MA.5.AR.1.2**	DOK 2
28	A, D	**MA.5.GR.1.2**	DOK 1
29	B	**MA.5.M.1.1**	DOK 2
30	C	**MA.5.NSO.2.5**	DOK 1
31	A	**MA.5.AR.1.2**	DOK 2
32	D	**MA.5.NSO.1.1**	DOK 1
33	C	**MA.5.AR.1.1**	DOK 2
34	B	**MA.5.DP.1.2**	DOK 2
35	C	**MA.5.AR.2.4**	DOK 2
36	D	**MA.5.AR.2.3**	DOK 2
37	A	**MA.5.AR.3.1**	DOK 2
38	B	**MA.5.GR.3.2**	DOK 1
39	B, D	**MA.5.M.1.1**	DOK 2
40	C	**MA.5.FR.2.2**	DOK 2

ANSWERS SORTED BY FL BEST STRAND

NSO			
4	B	**MA.5.NSO.2.1**	DOK 2
10	A	**MA.5.NSO.2.4**	DOK 2
12	D	**MA.5.NSO.1.4**	DOK 2
15	C	**MA.5.NSO.1.2**	DOK 1
17	A	**MA.5.NSO.1.2**	DOK 1
21	C, D	**MA.5.NSO.1.3**	DOK 2
22	B	**MA.5.NSO.1.5**	DOK 1
26	C	**MA.5.NSO.2.2**	DOK 2
30	C	**MA.5.NSO.2.5**	DOK 1
32	D	**MA.5.NSO.1.1**	DOK 1
41	Short answer response	**MA.5.NSO.1.2, MA.5.NSO.1.5**	DOK 3

FR			
3	B, C	**MA.5.FR.2.3**	DOK 2
6	A	**MA.5.FR.2.1, MA.5.AR.1.2**	DOK 2A
14	A	**MA.5.FR.1.1**	DOK 2
18	A	**MA.5.FR.2.2, MA.5.GR.2.1, MA.5.AR.1.2**	DOK 2
27	D	**MA.5.FR.2.2, MA.5.AR.1.2**	DOK 2
40	C	**MA.5.FR.2.2**	DOK 2
43	Extended Response	**MA.5.FR.2.1, MA.5.AR.1.2**	DOK 3

AR			
5	D	**MA.5.AR.2.1**	DOK 1
9	C	**MA.5.AR.1.3, MA.5.FR.2.4**	DOK 2
11	B	**MA.5.AR.2.2**	DOK 1
20	D	**MA.5.AR.3.2**	DOK 2
24	C	**MA.5.AR.2.2**	DOK 1
31	A	**MA.5.AR.1.2**	DOK 2
33	C	**MA.5.AR.1.1**	DOK 2
35	C	**MA.5.AR.2.4**	DOK 2
36	D	**MA.5.AR.2.3**	DOK 2
37	A	**MA.5.AR.3.1**	DOK 2

M			
1	C	**MA.5.M.2.1, MA.5.NSO.2.3**	DOK 2
2	B	**MA.5.M.1.1**	DOK 2
29	B	**MA.5.M.1.1**	DOK 2
39	B, D	**MA.5.M.1.1**	DOK 2

GR			
7	B	**MA.5.GR.3.1, MA.5.GR.3.2, MA.5.GR.3.3**	DOK 1
8	D	**MA.5.GR.4.1**	DOK 1
13	C	**MA.5.GR.3.3**	DOK 2
16	A, C, D	**MA.5.GR.1.1**	DOK 2
23	B	**MA.5.GR.4.2**	DOK 2
25	B	**MA.5.GR.3.1**	DOK 1
28	A, D	**MA.5.GR.1.2**	DOK 1
38	B	**MA.5.GR.3.2**	DOK 1
42	Extended Response	**MA.5.GR.4.1, MA.5.GR.4.2**	DOK 3

M			
19	C	**MA.5.DP.1.1, MA.5.FR.2.1**	DOK 2
34	B	**MA.5.DP.1.2**	DOK 2

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