



THIRD SPACE
LEARNING

4th Grade New Jersey State Practice Math Test

New Jersey Practice Test Grade
4

Grade 4

Questions

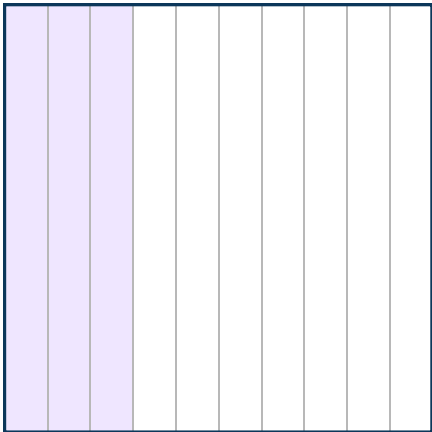
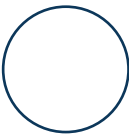
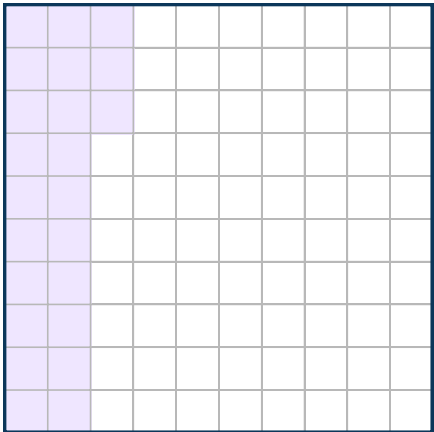
Name: Class:

Date: Score:

Unit 1
12 questions


You are NOT permitted to use calculators.

- 1
- Which of the following statements correctly compares the two decimals below?



- A. $0.23 > 0.3$
- B. $0.03 < 0.23$
- C. $0.3 > 0.23$
- D. $23 < 3$

- 2 Charlene’s room is in the shape of a rectangle. The area of the room is 216 ft^2 and the length of the room is 12 ft . What is the width of the room? Show your work in the space below.

 Answer

- 3 Nathan is planting a garden with his grandmother. They planted 4 times as many cucumber plants as squash plants. If there are 24 cucumber plants, how many squash plants are there?

Use the box for your answer.

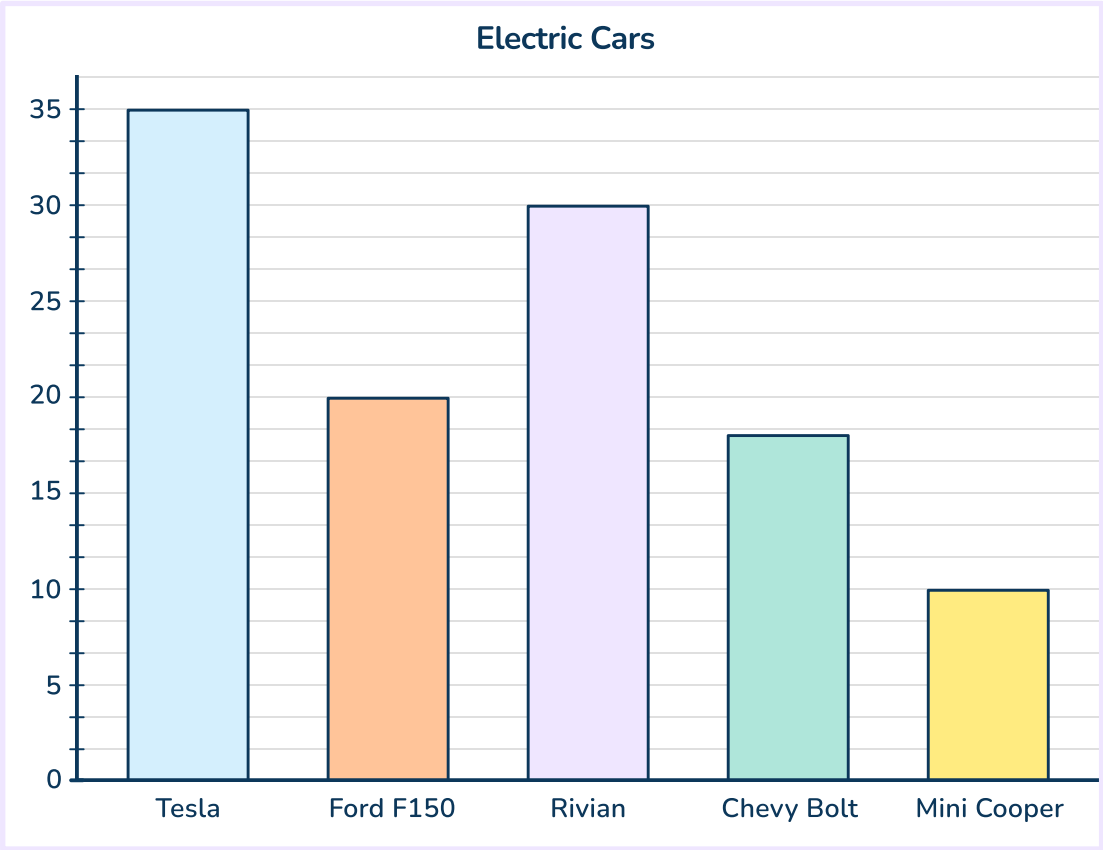
 Answer

- 4 Using the following area model for multiplication, Colin solves 37×19 . What is the missing number in the model?

300	70
?	63

Missing number:_____

- 5 A company is doing research about electric cars. They conducted a survey to ask 113 people that drive electric cars, the brand of electric car they drive. The results are in the graph below.



Part A:

How many of the people surveyed drive the following electric vehicles?
Enter your answer in the spaces below.

Ford F150 = _____

Tesla = _____

Rivian = _____

Mini Cooper = _____

Part B:

Explain a strategy you can use to find the exact amount of people that drive a Chevy Bolt. Use the space below to explain your answer.

 Answer

Part C:

How many people drive a Chevy Bolt? Enter your answer in the box below.

 Answer

-
- 6 Nigel volunteers at an animal shelter. They have 48 pounds of dog food. Nigel feeds the dogs in servings of ounces. How many ounces of dog food does the animal shelter have?

(1 pound = 16 ounces)

- A. 48 ounces
- B. 3 ounces
- C. 768 ounces
- D. 722 ounces

-
- 7 Select all the numbers that are multiples of 6.

- A. 1
- B. 3
- C. 6
- D. 18
- E. 24
- F. 32
- G. 36

- 8 Show your work and enter your answer in the box.

$$2,783 \times 8 =$$

 Answer

- 9 Part A:

Nora walked 0.7 mile to school. Using a denominator of 10, what is the fractional equivalent of this distance?

 Answer

Part B:

Darrin walked $\frac{3}{10}$ mile on Thursday and $\frac{8}{100}$ miles on Friday. He tells Nora that he walked further than she did because $\frac{3}{10} + \frac{8}{100} = \frac{38}{100}$ mile and 38 is greater than 7.

In the box below:

- Identify the incorrect reasoning of Darrin's statement and correct it.
- Using $<$, $>$, or $=$ write a correct comparison statement comparing the distance Nora walked and the distance Darrin walked.

 Answer


- 10 Which three numbers make the comparison true?

_____ $>$ 62,893

- A. 62,785
- B. 62,980
- C. 62,894
- D. 62,891
- E. 62,900

-
- 11 Julian makes clothes with a particular type of fabric. He bought 72 yards of this fabric this week which was three times the amount of fabric he bought last week. How many yards of fabric did he buy last week?

Show your work in the space below.

 Answer

-
- 12 Select two choices that are factor pairs for the number 24.

- A. 2 and 12
- B. 3 and 7
- C. 4 and 8
- D. 6 and 5
- E. 3 and 8

Unit 2

10 questions

You are NOT permitted to use calculators.

- 1 Write either $<$, $>$, or $=$ to make the comparison true.

0.5 meter _____ 0.3 meter

0.02 meter _____ 0.2 meter

0.30 meter _____ 0.3 meter

- 2 Enter your answer on the space provided.

$1,968 \div 5 =$ _____

- 3 Select the fractions that make both comparisons true.

$$\frac{3}{5} = \square$$

$$\frac{2}{5} < \square$$

A. $\frac{6}{10}$

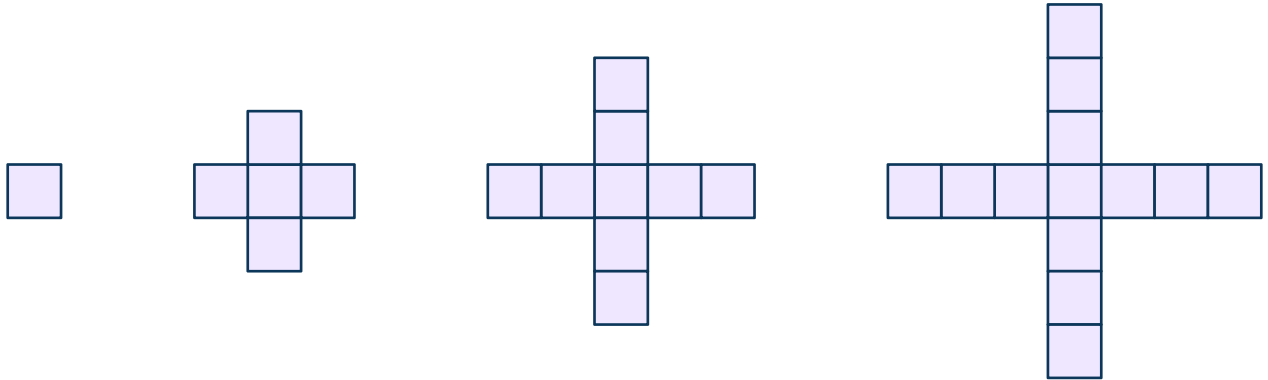
B. $\frac{1}{2}$

C. $\frac{4}{10}$

D. $\frac{60}{100}$

E. $\frac{20}{100}$

- 4 Look at the pattern of figures below. If the pattern continues, how many squares will make up the 6th figure? Place your answer on the space provided.



Number of squares in the 6th figure: _____

- 5 A class is comparing the digits' values in the numbers 145,802 and 18,425.

Which statements are true? Select all that apply.

- A. The digit 2 in 45,802 is ten times larger than in 18,425.
- B. The digit 8 in 18,425 is ten times larger than in 45,802.
- C. The digit 5 in 18,425 is one thousand times smaller than in 45,802.
- D. The digit 4 in 45,802 is one thousand times larger than in 18,425.
- E. The digit 1 in 145,802 is one hundred times larger than in 18,425.

- 6 Julian has a wire that is $\frac{15}{6}$ meters long. He needs to cut the wire into two pieces. List two different pairs of fractions that could show the lengths in meters, of the two pieces. Explain how you found your answers. Use the space provided to write your answer.

 Answer

- 7 Jayden has 20 t-shirts.
- $\frac{1}{5}$ of the t-shirts have her number on them from her soccer team
 - $\frac{1}{2}$ of the t-shirts have her school mascot on them
 - $\frac{3}{10}$ of the t-shirts have a picture of her pet rabbit on them

Part A:

Which type of t-shirt does she have the least amount of? Explain your answer in the space below.

 Answer

Part B:

Place the fractions ($\frac{1}{5}$, $\frac{1}{2}$, $\frac{3}{10}$) in order from least to greatest in the space below.

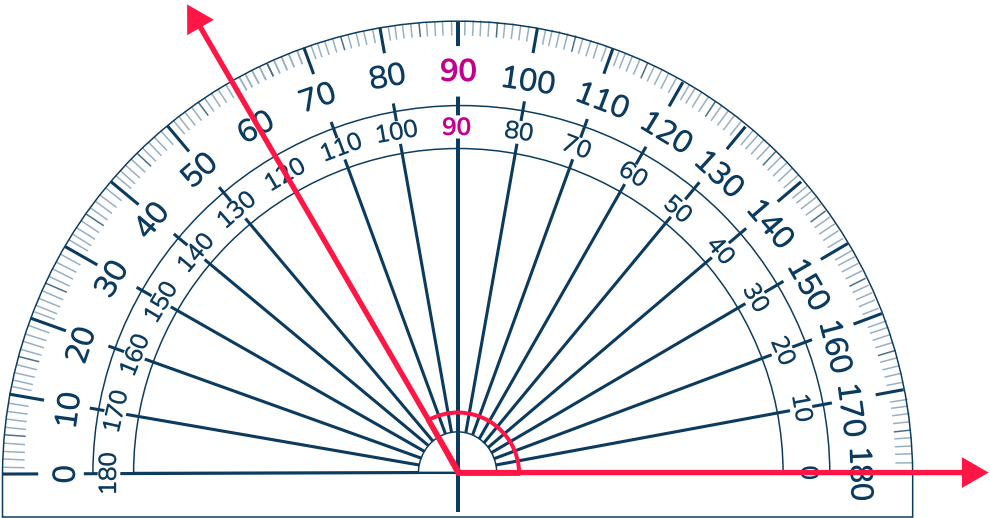
 Answer

Part C:

How many more t-shirts with her pet-bunny on them does she have than soccer t-shirts?
Show your work in the space below.

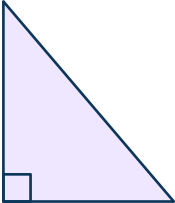
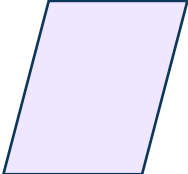
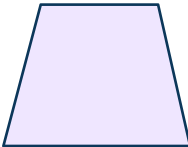
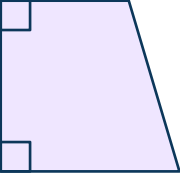

 Answer

- 8
- What is the measure of the angle? Use the space provided to write your answer.



Angle measures:_____

9 Check the column or columns that are true for each figure.

	Appears to have two 90° angles.	Appears to have at least one pair of parallel sides.
		
		
		
		
		

10 Which equation represents the statement “35 is 7 times as many as 5”?

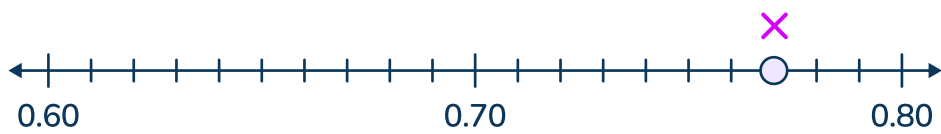
- A. $35 = 5 + 7$
- B. $35 = 7 \times 5$
- C. $35 = 7 \times 7$
- D. $35 = 20 + 15$

Unit 3

9 questions

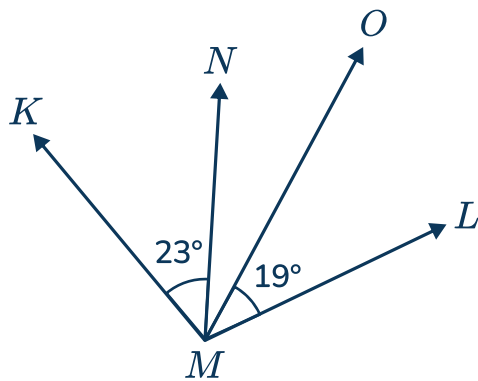
You are *NOT* permitted to use calculators.

- 1
- What is the value of point X on the number line below? Use the space to write your answer.



X = _____

- 2
- In the picture below, angle KML is 98° .



Part A:

What is the measure, in degrees, of angle NMO? Use the space below for your answer.

Answer

Part B:

What is the measure, in degrees, of angle KMO? Use the space below for your answer.

 Answer

Part C:

Identify angle NMO and angle KMO as either an acute angle, obtuse angle or right angle. Use the space below to explain your thinking.

 Answer

-
- 3 Precious makes and sells homemade soaps. She is putting them into boxes. She places 6 bars of soap in each box. How many boxes does she need for 415 bars of soap?

Number of boxes:_____

- 4 Ursula subtracted with the standard algorithm.

	5,	7	9	1
–	3,	4	2	8
	2,	3	7	7

What mistake did Ursula make? Use the space below to write your answer.

 Answer

-
- 5 Which expression is equivalent to $4 \times \frac{2}{3}$?

A. $8 \times \frac{1}{3}$

B. $8 \times \frac{1}{2}$

C. $8 \times \frac{2}{3}$


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

- 6
- Mrs. Crane’s students choose extra curricular activities to do after school. The table below shows the fractions of all students who chose each activity.

Activity	Fraction of all students
Chess Club	$\frac{2}{10}$
School Spirit Club	$\frac{4}{10}$
Soccer Club	$\frac{3}{10}$
Theater Club	$\frac{1}{10}$

Part A:

Write an equation to find s , the fraction of students that chose the chess club and the theater club.

 Answer

Part B:

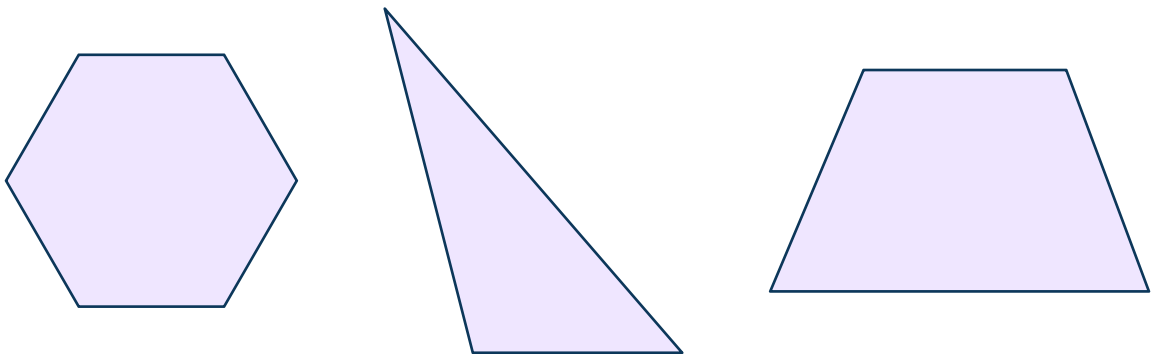
Find the fraction of students that chose chess and theater.

 Answer

- 7 Jayson had 1 whole watermelon. He ate $\frac{1}{8}$ of the watermelon on Monday, $\frac{3}{8}$ of the watermelon on Tuesday, and $\frac{2}{8}$ of the watermelon on Wednesday. What fraction of the watermelon was left after Wednesday?

- A. $\frac{1}{8}$
B. $\frac{2}{8}$
C. $\frac{5}{8}$
D. $\frac{6}{8}$
-

- 8 Theo sorts these figures into the same group.



Which statement best describes the figures in this group?

- A. Each figure has at least one pair of parallel sides.
B. Each figure has at least one acute angle.
C. Each figure is a regular polygon.
D. Each figure has at least one obtuse angle.

- 9
- A bakery is preparing a large order of mini-cupcakes for a wedding. The table shows how many batches of each flavor of cupcakes were ordered.


PART A:

Fill out the table to complete the work order to help the baker determine how many of each flavor mini-cupcake she needs for the order. The table shows how many cupcakes are made from one batch, and then how many batches of each flavor she needs to make. Find the grand total of all cupcake flavors.

Mini-Cupcake Flavor	Mini-Cupcakes in One Batch	Batches Ordered	Total Number of Mini- Cupcakes
Chocolate	36	9	_____
Peanut Butter Fudge	28	7	_____
Lemon Blueberry	25	6	_____
Vanilla	42	8	_____
Grand Total of Mini-Cupcakes Ordered =			_____

PART B:

The baker needs to transport all of the cupcakes to the wedding venue. She can fit 24 mini-cupcakes in one box. How many boxes will she need to transport all of the mini-cupcakes in boxes? *Explain your answer in the space provided.*

 Answer

Answer Key

Unit 1 No Calculator			
Item number	Correct answer	Standard(s)	DOK
1	C	4.NF.C.7	DOK 1
2	$Area = l \times w$ $216 = 12 \times w$ $width = 18ft$	4.MD.3	DOK 2
3	6 squash plants $4 \times 6 = 24$	4.OA.1, 4.OA.2	DOK 2
4	270	4.NBT.B.5	DOK 2
5	Part A: Ford F150 = 20 Tesla = 35 Rivian = 30 Mini Cooper = 10 Part B: Since 113 people were surveyed, you can subtract the number of people that drive Ford F150, Tesla, Rivian and Mini Cooper from the 113. $20 + 35 + 30 + 10 = 95$ $113 - 95 = 18$ Part C: 18 people drive a Chevy Bolt	4.MD.B	DOK 3
6	C	4.MD.2, 4.NBT.B.5	DOK 2
7	C,D,E,G	4.OA.B.4	DOK 2

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Item number	Correct answer	Standard(s)	DOK
8	$2,783 \times 8 = 22,264$	4.NBT.B.5	DOK 2
9	Part A: $\frac{7}{10}$ mile Part B: $\frac{3}{10} + \frac{8}{100} =$ $\frac{30}{100} + \frac{8}{100} = \frac{38}{100}$ $\frac{30}{100} < \frac{7}{10}$ because $\frac{7}{10} = \frac{70}{100}$ So, $\frac{38}{100} < \frac{70}{100}$	4.NF.C.5, 4.NF.C.7, 4.NF.A.2	DOK 3
10	B, C, E	4.NBT.A.2	DOK 1
11	$72 \div 3 = 24$ 24 yards of fabric	4.OA.A.2	DOK 2
12	A, E	4.OA.B.4	DOK 1

Unit 2			
Item number	Correct answer	Standard(s)	DOK
1	$0.5\ m > 0.3m$ $0.02\ m < 0.02m$ $0.30\ m = 0.3m$	4.NF.C.7	DOK 1
2	393 remainder 3	4.NBT.B.6	DOK 1
3	A, D	4.NF.A.2	DOK 2
4	21	4.OA.C.5	DOK 2
5	B,C	4.NBT.A.3	DOK 2
6	Answers vary: $\frac{7}{6} + \frac{8}{6} = \frac{15}{6}$ $\frac{10}{6} + \frac{5}{6} = \frac{15}{6}$ $\frac{11}{6} + \frac{4}{6} = \frac{15}{6}$	4.NF.B.3.b	DOK 3

Unit 2			
Item number	Correct answer	Standard(s)	DOK
7	<p>Part A: Jayden has the least amount of soccer shirts because $\frac{2}{5}$ is the smallest fraction.</p> <p>Part B: Getting a common denominator for the fractions so it's easier to compare in order they are: $\frac{1}{5} = \frac{2}{10}$ $\frac{3}{10}$ $\frac{1}{2} = \frac{5}{10}$</p> <p>Part C: Bunny t-shirts $\frac{3}{10} \times \frac{20}{1} = 6$ tshirts Soccer t-shirts $\frac{1}{5} \times 20 = 4$ tshirts $6 - 4 = 2$ She has two more bunny t-shirts than soccer t-shirts.</p>	<p>4.OA.A.3 4.NF.A.2 4.NF.B.4c</p>	DOK 3
8	120°	4.MD.C.5a	DOK 2

Unit 2			
Item number	Correct answer	Standard(s)	DOK
9	<p>Triangle - nothing checked off</p> <p>Parallelogram - Appears to have at least one pair of parallel sides</p> <p>Trapezoid - Appears to have at least one pair of parallel sides.</p> <p>Trapezoid - Appears to have two right angles and appears to have at least one pair of parallel sides.</p> <p>Rhombus - Appears to have at least one pair of parallel sides.</p>	4.G.A.2	DOK 3
10	B	4.OA.A.1	DOK 2

Unit 3																							
Item number	Correct answer	Standard(s)	DOK																				
1	X = 0.77	4.NF.C.6	DOK 2																				
2	<p>Part A: ∠KML = 98 ∠KML - ∠KMN - ∠OML = ∠NMO 98 - 23 - 19 = 56 ∠NMO = 56°</p> <p>Part B: ∠KMN + ∠NMO = ∠KMO 23 + 56 = 79 ∠KMO = 79°</p> <p>Part C: Both angles are acute angles because their measures are between 0° and 90°</p>	4.MD.C.7, 4.G.A.2	DOK 3																				
3	70 boxes	4.OA.A.3	DOK 2																				
4	<table border="1"><tr><td></td><td></td><td></td><td>8</td><td>11</td></tr><tr><td></td><td>5,</td><td>7</td><td>9</td><td>1</td></tr><tr><td>-</td><td>3,</td><td>4</td><td>2</td><td>8</td></tr><tr><td></td><td>2,</td><td>3</td><td>7</td><td>7</td></tr></table> <p>Error was made with regrouping</p>				8	11		5,	7	9	1	-	3,	4	2	8		2,	3	7	7	4.NBT.A.2	DOK 2
			8	11																			
	5,	7	9	1																			
-	3,	4	2	8																			
	2,	3	7	7																			
5	A	4.NF.A.2 4.NF.B.4b	DOK 2																				
6	<p>Part A: $s = \frac{2}{10} + \frac{1}{10}$</p> <p>Part B: $\frac{3}{10}$</p>	4.NF.B.3.b 4.NF.B.3.d	DOK 3																				
7	B	4.NF.B.3.b	DOK 2																				
8	D	4.G.A.1 4.G.A.3	DOK 2																				

Unit 3			
Item number	Correct answer	Standard(s)	DOK
9	<p>Part A:</p> <p>324 chocolate 196 Peanut butter fudge 150 Lemon blueberry 336 Vanilla</p> <p>1006 - Grand total</p> <p>Part B:</p> <p>$1006 \div 24 = 41 \text{ r } 22$ 24 cupcakes in 41 boxes and 22 cupcakes in 1 box so a total of 42 boxes</p>	<p>4.OA,A.2 4.OA.A.3</p>	DOK 3




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)
24%	17%	37%	12%	10%

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