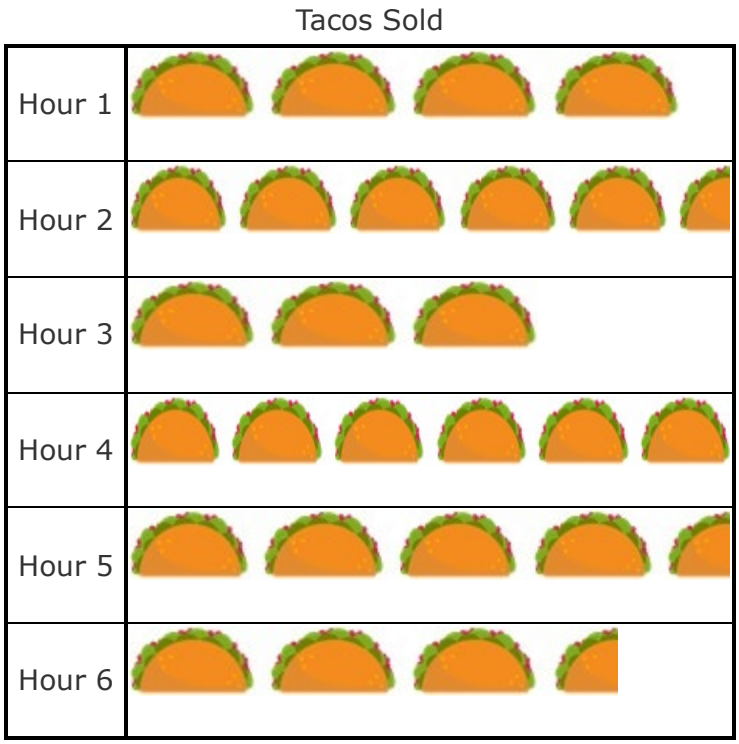
3rd Grade Mathematics (TEKS) - Diagnostic Pre-Test

Student Name: _____ Teacher Name: Jackie Bittner

Score: _____ Date: _____

Question 1 : 1565436

The graph shows the number of tacos sold during 6 hours at a taco stand.



Each  means 6 tacos sold.

What is the total number of tacos sold during hours 4, 5, and 6?

A	64
B	48
C	84
D	14

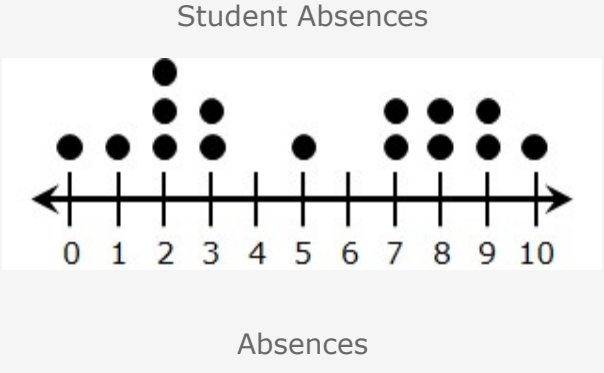
Question 2 : 1565136

The list shows the number of absences 15 students had last year.

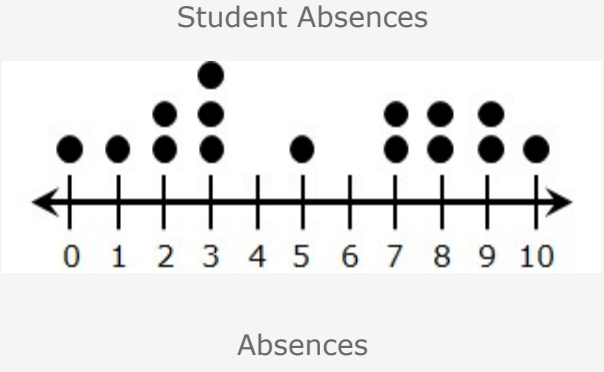
10, 8, 7, 9, 2, 8, 0, 1, 3, 9, 5, 7, 2, 3, 2

Which plot represents the students' number of absences?

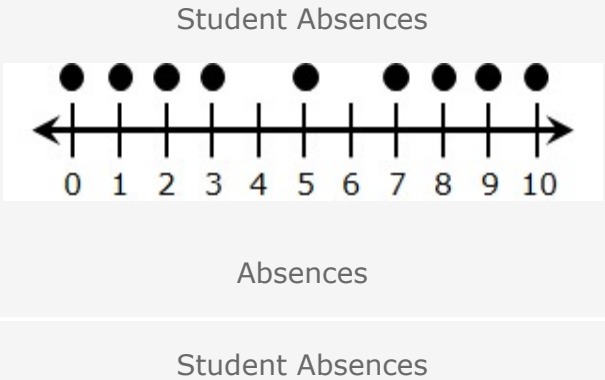
A



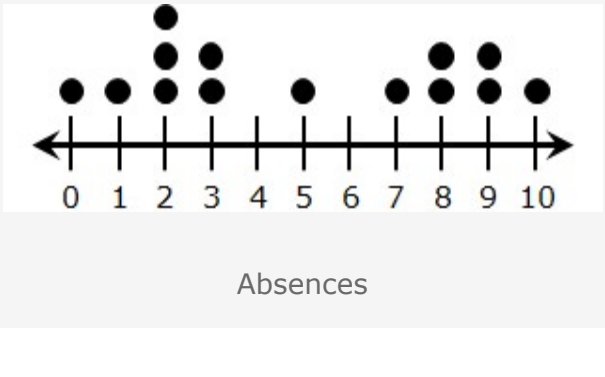
B



C



D



Question 3 : 1563251

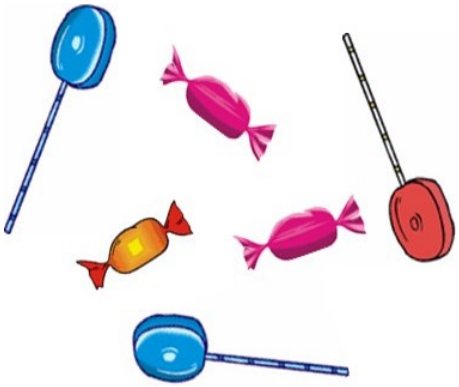
This year, 877 people entered the Springtown Marathon. This number of people is 123 less than the number of people who entered the marathon last year.

How many people entered the marathon last year?

A	754
B	654
C	1,100
D	1,000

Question 4 : 1562090

Luiz has a bag of candy that he wants to share with some friends. He counts the candy in groups of 6.



Which list shows only numbers Luiz could have counted?

A	6, 13, 18, 24	B	12, 22, 28, 34
C	12, 20, 26, 30	D	6, 12, 18, 24

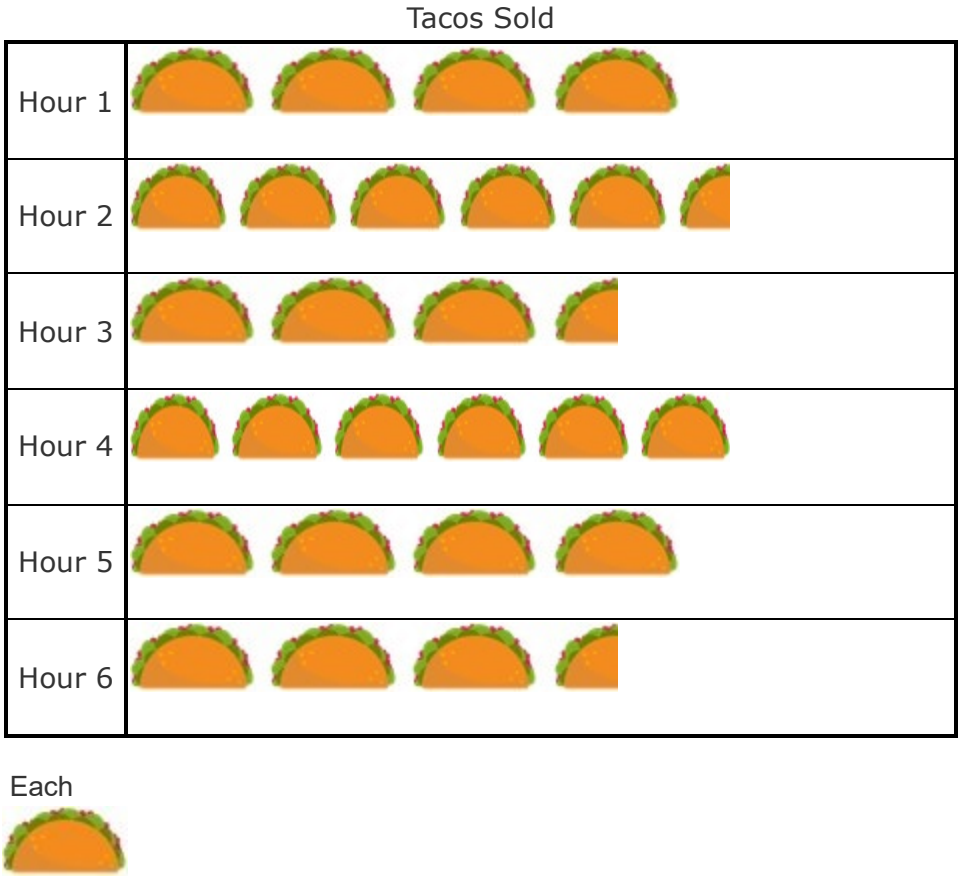
Question 5 : 1562095

Chase loves to listen to music. He listens to 11 songs every night before he goes to sleep. Which expression can be used to find the number of songs Chase will listen to in 7 days?

A	11 - 7
B	11 + 7
C	11 ÷ 7
D	11 × 7

Question 6 : 1565437

The graph shows the number of tacos sold during 6 hours at a taco stand.



Each means 6 tacos sold.

What is the total number of tacos sold during hours 2, 3, and 4?

A	78
B	90
C	84
D	15

Question 7 : 1561524

What is the total value of the money shown above?

A	$2.71
B	$2.76
C	$2.86
D	$2.96
E	$2.91

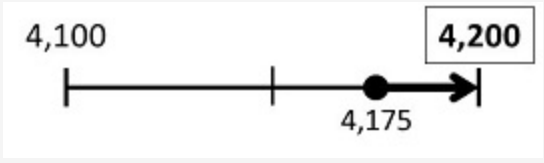
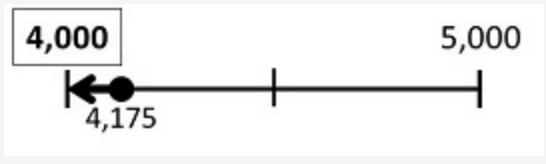
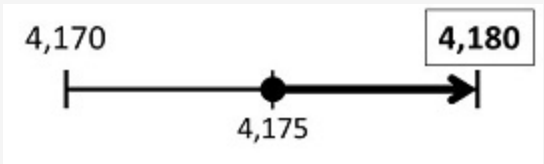
Question 8 : 1563270

At the party, there were 3 plates of cookies. There were 10 cookies on each plate. Six people ate all the cookies. They each ate the same number of cookies. How many cookies did each person eat?

A	7
B	5
C	24
D	30

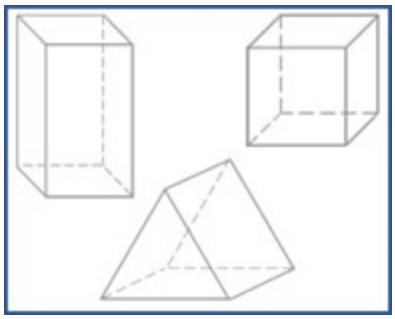
Question 9 : 1562084

Which number line represents 4,175 rounded to the nearest hundred?

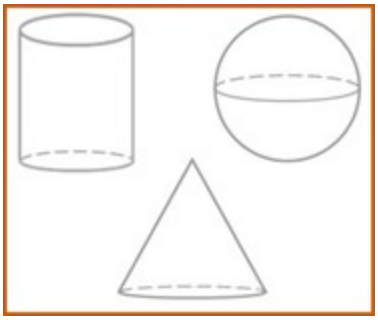
A	
B	
C	
D	

Question 10 : 1565132

Patricia sorted six figures into two sets, as shown below.



Set 1



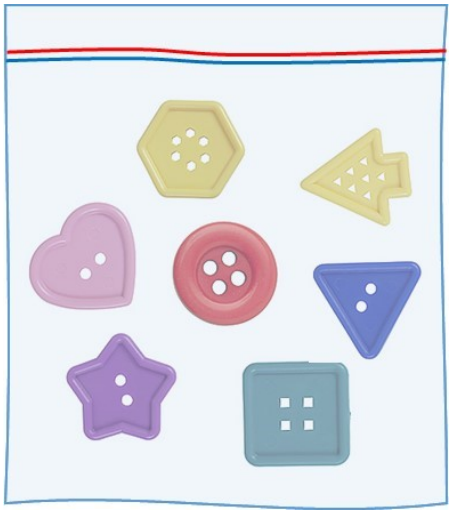
Set 2

Which statement about the figures Patricia sorted is true?

A	All of the figures in Set 2 are prisms.
B	All of the figures in Set 1 are rectangular prisms.
C	All of the figures in Set 1 have edges.
D	All of the figures in Set 2 have vertices.

Question 11 : 1562088

Beth bought 5 bags of buttons at the craft store. Each bag has the same number of buttons. One of the bags is shown.



How many buttons are in 5 bags?

A	7	B	12
C	35	D	28

Question 12 : 1561521

(5 × 10,000) + (7 × 100) + (4 × 10) + (3 × 1)

Which number represents the value of the expression shown above?

A	50,743
B	57,430
C	57,043
D	507,043

Question 13 : 1563230

(4 × 10,000) + (6 × 100) + (8 × 10) + (3 × 1)

The expanded notation of a number is shown. What is the number written in standard form?

A	40,683
B	4,683
C	46,083
D	46,830

Question 14 : 1562089

A toy store donated 6 tricycles to daycare. Each tricycle had 3 wheels, as shown.

Which expression can be used to find the total number of wheels on 6 tricycles?

A	6 + 3	B	6 – 3
C	6 ÷ 3	D	6 × 3

Question 15 : 1562087

Rebekah has 3 rows of stickers in her sticker book. Each row has the same number of stickers. One of the rows is shown.

How many stickers are in 3 rows?

A	7	B	10
C	21	D	35

Question 16 : 1565122

Monica's goal is to raise $300 for a charity this month.

• Last week, she raised $118.

• This week, she raised $47.

How much more money does Monica need to raise in order to meet her goal?

A	$165
B	$465
C	$135
D	$245

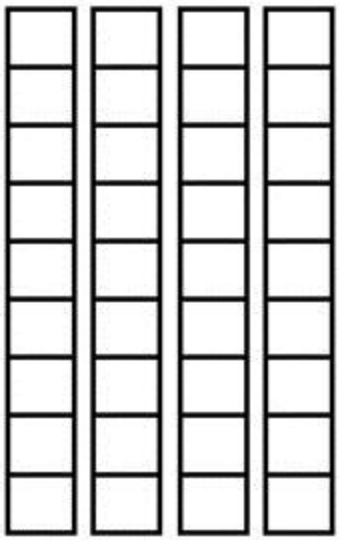
Question 17 : 1561505

$$30 \div 5$$

What is the quotient of the expression above?

A	35	B	25
C	8	D	6

Question 18 : 1561499



The model above can be used to represent the expression 36 ÷ 4. What is the quotient of 36 ÷ 4?

A	9
B	8
C	10
D	11

Question 19 : 1563263

$$3 \times 15$$

Marnie studied 15 minutes for the math quiz. The number of minutes Ellen studied for the math quiz is represented by the expression above. Which statement is true?

A	Marnie studied 15 times the number of minutes Ellen studied.
B	Ellen studied 3 times the number of minutes Marnie studied.

C	Ellen studied 15 times the number of minutes Marnie studied.
D	Marnie studied 3 times the number of minutes Ellen studied.

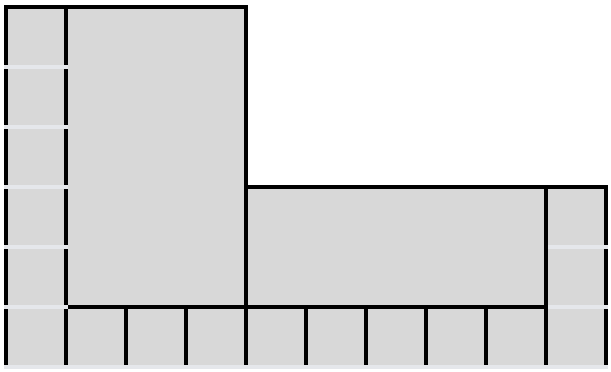
Question 20 : 1563262

Three groups of 24 students went on the field trip. How many students went on the field trip?

A	27
B	612
C	122
D	72

Question 21 : 1565447

A floor plan with two rectangular sections is shown.



= 1 square foot

What is the total area of the floor in square feet?

A	38 square feet
B	42 square feet

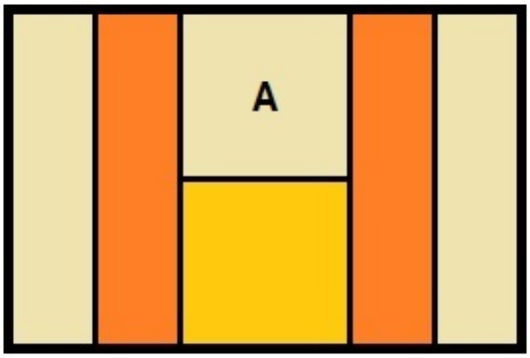
C	68 square feet
D	84 square feet

Question 22 : 1568710

A trapezoid is different from a rectangle because-

A	a trapezoid is larger in length than a rectangle.
B	a trapezoid has two equal sides and a rectangle has four equal sides.
C	a trapezoid has one set of parallel sides and a rectangle has two sets of parallel sides.
D	a trapezoid only has three sides and a rectangle has four sides.

Question 23 : 1561547



The rectangle shown above is separated into equal parts. What fraction of the rectangle's area is the area of part A?

A	$\frac{6}{6}$
B	$\frac{1}{2}$
C	$\frac{1}{6}$
D	$\frac{1}{3}$

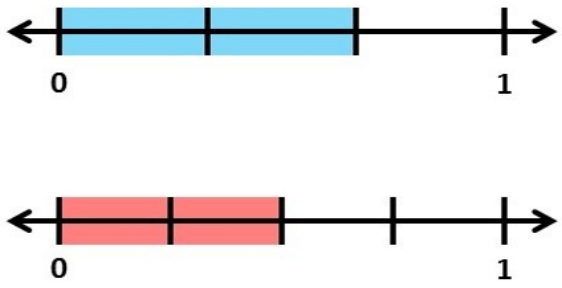
Question 24 : 1561520

The clock above shows the time that Matt's soccer game started. If the game was 45 minutes long, what time did it end?

A	4:45
B	4:15
C	5:00
D	5:45

Question 25 : 1562076

The two number lines are shaded to model two different fractions.



Based on the number lines, which comparison is true?

A	$\frac{2}{3} < \frac{2}{4}$	B	$\frac{2}{3} > \frac{2}{4}$
C	$\frac{2}{3} = \frac{2}{4}$	D	$\frac{1}{3} > \frac{2}{4}$

Question 26 : 1563280

Which list shows a correct way to group the figures above?

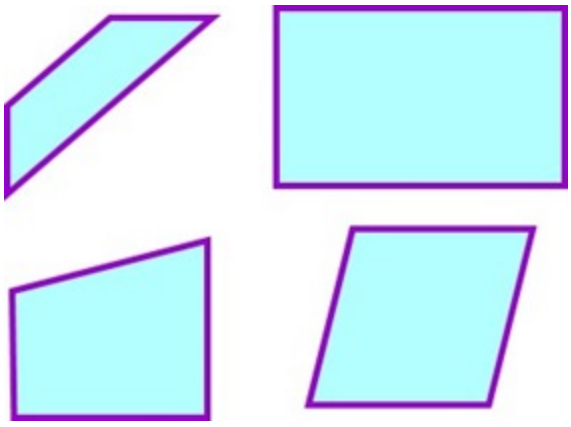
A	2 hexagons, 1 pentagon, and 2 quadrilaterals
B	3 pentagons and 2 quadrilaterals
C	1 hexagon, 2 pentagons, and 2 quadrilaterals
D	1 parallelogram, 3 pentagons, and 1 quadrilateral

Question 27 : 1562096

Ryan is playing video games at the arcade. He has 32 game tokens. His favorite game cost 4 tokens to play. Which expression could be used to find the number of times Ryan can play his favorite game?

A	32 ÷ 4
B	32 - 4
C	8 + 4
D	32 × 4

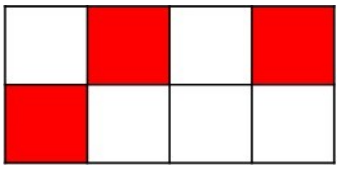
Question 28 : 1568709



Four figures are shown above. Which statement about the figures is true?

A	There are 4 parallelograms.
B	There are 3 parallelograms and 1 rhombus.
C	There are 3 trapezoids and 1 parallelogram.
D	There are 4 quadrilaterals, including 2 parallelograms.

Question 29 : 1562079



What fraction of the model is shaded?

A	$\frac{3}{5}$	B	$\frac{3}{4}$
C	$\frac{1}{3}$	D	$\frac{3}{8}$

Question 30 : 1563244

Four people equally shared two large sandwiches.

Which fraction did each person receive?

A	$\frac{4}{2}$	B	$\frac{2}{4}$
C	$\frac{1}{4}$	D	$\frac{2}{2}$

Question 31 : 1561511

An equation is shown.

$$12 = \square \div 3$$

What is the missing number that makes the equation true?

A	15
B	9
C	4
D	36

Question 32 : 1561534

An equation is shown.

$$9 \times \square = 63$$

What is the missing factor in the equation shown above?

A	8
B	7
C	6
D	9

Question 33 : 1561523

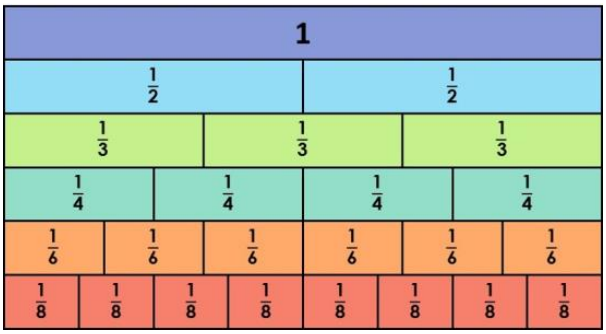
Jonathon rode his skateboard 52 minutes on Monday and 67 minutes on Tuesday. About how many minutes did he ride his skateboard on Monday and Tuesday combined?

A	130 minutes
B	110 minutes
C	100 minutes
D	120 minutes

Question 34 : 1562077

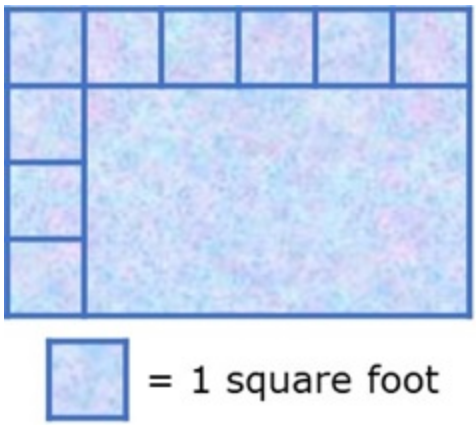
Which fraction is NOT equivalent to $\frac{1}{2}$?

The fraction strips can be used to help you find equivalent fractions.



A	$\frac{4}{8}$
B	$\frac{3}{6}$
C	$\frac{2}{3}$
D	$\frac{2}{4}$

Question 35 : 1561501

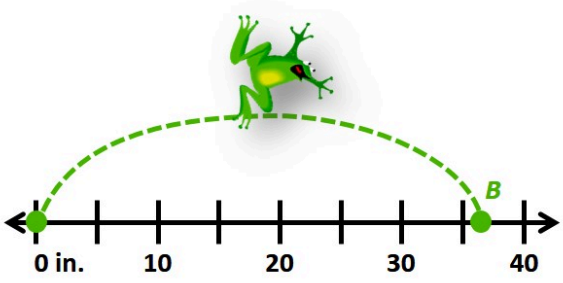


A model of a floor is shown. What is the area of the floor?

A	16 square feet
B	24 square feet
C	20 square feet
D	10 square feet

Question 36 : 1562083

The number line represents the distance Fred the Frog jumped from his lily pad to point B.



About how many inches did Fred jump?

A	30 inches	B	40 inches
C	50 inches	D	45 inches

Question 37 : 1562091

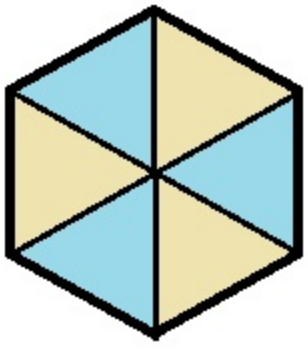
Gallons

Number of Quarts	Number of Gallons
32	8
28	7
20	5
8	2

The table above shows the number of gallons in different numbers of quarts. Which statement describes the relationship between the number of quarts and the number of gallons?

A	The number quarts ÷ 4 = the number of gallons
B	The number quarts × 4 = the number of gallons
C	The number quarts - 15 = the number of gallons
D	The number quarts + 8 = the number of gallons

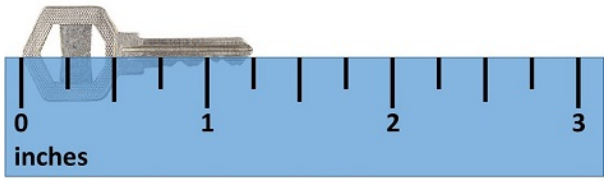
Question 38 : 1561512



The hexagon above has been divided into congruent parts. Which fraction represents each part?

A	$\frac{1}{8}$
B	$\frac{1}{6}$
C	$\frac{1}{12}$
D	$\frac{1}{3}$

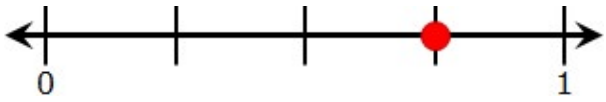
Question 39 : 1562082



What number best represents the length of the key in inches?

A	$1\frac{1}{3}$ inches	B	$1\frac{1}{2}$ inches
C	$1\frac{1}{4}$ inches	D	$1\frac{1}{6}$ inches

Question 40 : 1561509



What fraction does the red dot represent on the number line above?

A	$\frac{3}{5}$	B	$\frac{1}{4}$
C	$\frac{2}{5}$	D	$\frac{3}{4}$

Question 41 : 1561503

What is the total value of the money shown above?

A	$2.32
B	$2.08
C	$2.37
D	$2.27

Question 42 : 1561522

55,355 ____ 55,533

Which symbol correctly compares the two numbers?

A	55,355 > 55.533
B	55,355 < 55.533
C	55.533 = 55,355
D	55.533 < 55,355

Question 43 : 607134

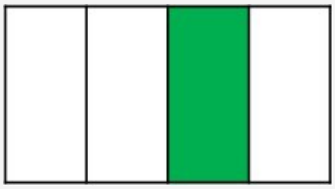
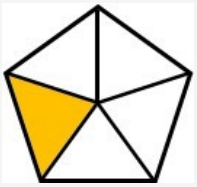
Tanya wants to buy a new couch for her living room but doesn't have enough money. She decides to use a credit card to make the purchase. Which of the following is true about a credit card purchase?

A	Tanya will be able to pay less for the couch because it is on credit.
B	Tanya can only buy one type of couch with a credit card.

C	Tanya will have to pay more for the couch after interest is charged.
D	Tanya will not have to pay anything for the couch because paying with credit cards makes everything free.

Question 44 : 1562080

Which model does NOT represent the fraction one-fourth?

A		B	
C		D	

Question 45 : 1561507

What time is 25 minutes past the time above?

A	9:25
B	9:50
C	9:45
D	10:05

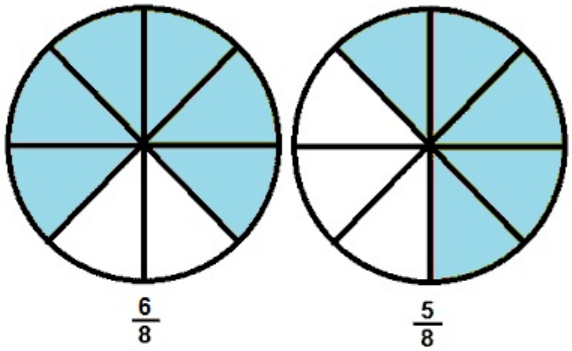
Question 46 : 1561539

$$8 \times 6$$

What is the product of the expression shown above?

A	48	B	54
C	46	D	42

Question 47 : 1561498



Two fraction models are shown above. Which fraction represents the greatest value?

A	$\frac{5}{8}$
B	$\frac{6}{8}$
C	They are equal in value.

Question 48 : 1563289

Clarence drew a figure. Each side of the figure has a length of 6 inches. Which of the following figures could Clarence have drawn?

A	square with a perimeter of 12 inches
B	square with a perimeter of 24 inches
C	triangle with a perimeter of 12 inches
D	triangle with a perimeter of 24 inches

Question 49 : 1565125

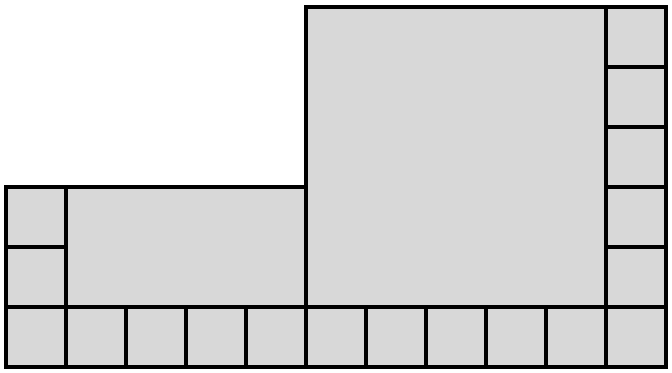
These six cakes have candles for different birthdays.

Which list shows only the birthdays which are even numbers?

A	15, 30, 42, 70	B	30, 42, 70
C	15, 30, 70	D	15, 31, 33

Question 50 : 1565452

A figure composed of two rectangular sections is shown.



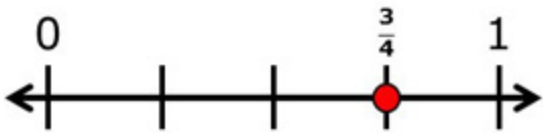
= 1 square foot

What is the total area of the figure in square feet?

A	72 square feet
B	42 square feet
C	102 square feet
D	51 square feet

Question 51 : 1562078

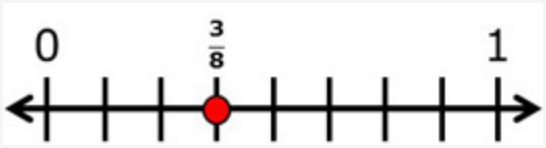
The fraction three-fourths is labeled on the number line.



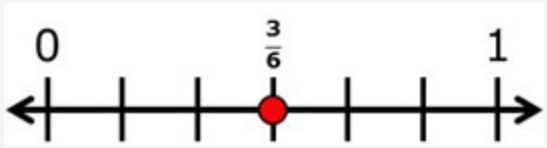
Which choice shows a fraction that is equivalent to three-fourths?

A

B

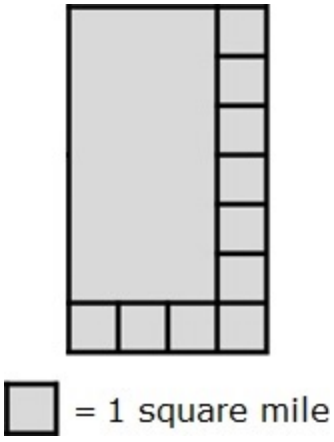


C



D

Question 52 : 1562094



What is the area of the rectangle shown above?

A 28 square miles

B 11 square miles

C 18 square miles

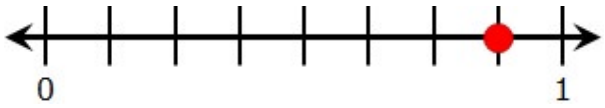
D 22 square miles

Question 53 : 1565139

A store ordered too many tomatoes. The store manager adjusts the price to sell as many tomatoes as possible before the tomatoes are too ripe. Which statement best describes the effect on the price?

A	The price will likely increase, because there are more tomatoes available.
B	The price will likely decrease, because there are more tomatoes available.
C	The price will likely decrease, because there are fewer tomatoes available.
D	The price will likely increase, because there are fewer tomatoes available.

Question 54 : 1561538



What fraction does the red dot represent on the number line above?

A	$\frac{1}{7}$	B	$\frac{6}{7}$
C	$\frac{7}{8}$	D	$\frac{1}{8}$

Question 55 : 1561541

The rock star signed 183 autographs at his New York concert and 386 autographs at his Boston concert. About how many autographs did he sign altogether?

A	700
B	500

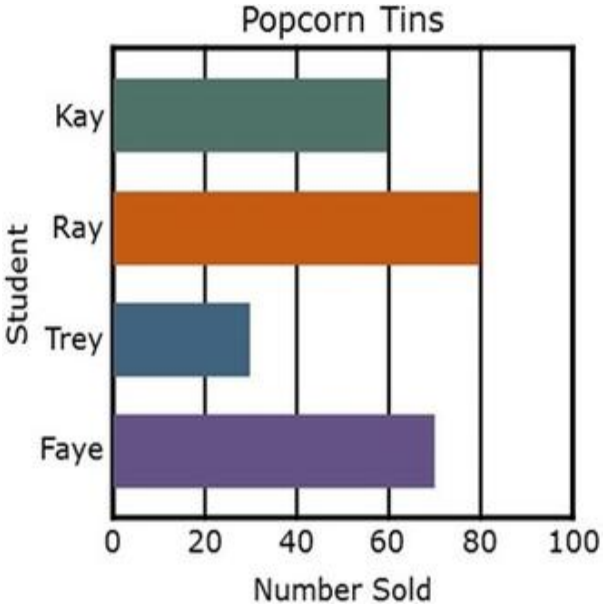
C	400
D	800
E	600

Question 56 : 607124

Each pitcher above has a capacity of 2 gallons. How much liquid can both pitchers hold all together?

A	2 gallons
B	4 gallons
C	3 gallons
D	1 gallon

Question 57 : 1563294



The graph shows the number of tins of popcorn sold by four students. Which table matches the data?

A

Popcorn Tins

Student	Number Sold
Kay	60
Ray	80
Trey	25
Faye	65

B

Popcorn Tins

Student	Number Sold
Kay	60
Ray	80
Trey	20
Faye	60

C

Popcorn Tins	
Student	Number Sold
Kay	60
Ray	80
Trey	40
Faye	80

D

Popcorn Tins	
Student	Number Sold
Kay	60
Ray	80
Trey	30
Faye	70

Question 58 : 1563278

There are 5 flavors of ice cream in each row at an ice cream shop. Which table shows the number of flavors of ice cream in different numbers of rows?

A

Ice Cream Flavors				
Number of Rows	3	7	11	12
Number of Flavors	15	20	25	30

B

Ice Cream Flavors				
Number of Rows	3	7	11	12
Number of Flavors	15	35	55	75

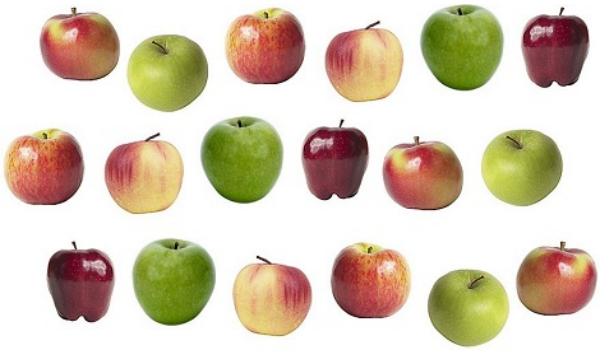
C

Ice Cream Flavors				
Number of Rows	3	7	11	12
Number of Flavors	15	35	55	60

D

Ice Cream Flavors				
Number of Rows	3	7	11	12
Number of Flavors	5	10	15	20

Question 59 : 1562092



The apples shown above will be placed into 2 grocery bags. There will be an equal number of apples in each bag. Which number sentence shows the number of apples that will be in each bag?

A 18 ÷ 3 = 6

B 18 ÷ 9 = 2

C 18 ÷ 2 = 9

D 18 ÷ 6 = 3

Question 60 : 1561514

36 ÷ 4

Which equation could be used to find the quotient of the expression shown above?

A ☐ × 36 = 4

B ☐ × 4 = 36

C	☐ ÷ 36 = 4
D	☐ ÷ 4 = 36

Question 61 : 1562093

Lamar bought 41 balloons. He accidentally popped 9 of the balloons. Then his brother Kendall gave him 15 more balloons. Which equation shows how to find the number of balloons Lamar has now?

A	$41 - 9 + 15 = \square$
B	$41 - 9 - 15 = \square$
C	$41 + 9 - 15 = \square$
D	$41 + 9 + 15 = \square$

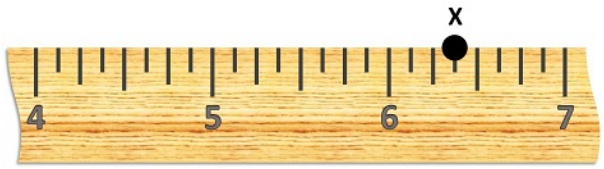
Question 62 : 1561532

Which list shows the numbers in order from least to greatest?

A	44,266	46,398	46,401	44,618
B	46,401	44,266	44,618	46,398

C	44,266	44,618	46,398	46,401
D	46,401	46,398	46,266	44,618

Question 63 : 1562081



What number does point X represent on the ruler?

A	$6\frac{3}{5}$	B	$6\frac{3}{7}$
C	$6\frac{3}{8}$	D	$6\frac{4}{8}$

Question 64 : 1562085

Jason had 35 dimes. He gave 12 dimes to his little sister. Then he used 6 dimes to buy a candy bar. Which equations shows how to find the number of dimes James has now?

A	$35 - 12 + 6 = \square$
B	$35 + 12 - 6 = \square$
C	$35 - 12 - 6 = \square$
D	$35 + 12 + 6 = \square$

Question 65 : 1563271

Judy’s band performs 3 times every month. Each performance lasts 2 hours. What is the total number of hours Judy’s band performs in 8 months?

A	24
B	48
C	66
D	40

Question 66 : 1563245

Six people equally shared three brownies.

Which fraction did each person receive?

A	$\frac{2}{3}$	B	$\frac{3}{6}$
C	$\frac{6}{3}$	D	$\frac{1}{6}$

Question 67 : 1561527

Which of the following units can be used to measure capacity?

A	pounds
B	inches
C	grams
D	pints
E	yards

Question 68 : 1561502

45 ÷ 9

Which equation could be used to find the quotient of the expression shown above?

A	☐ × 45 = 9
B	☐ + 9 = 45
C	☐ × 9 = 45
D	☐ - 9 = 45

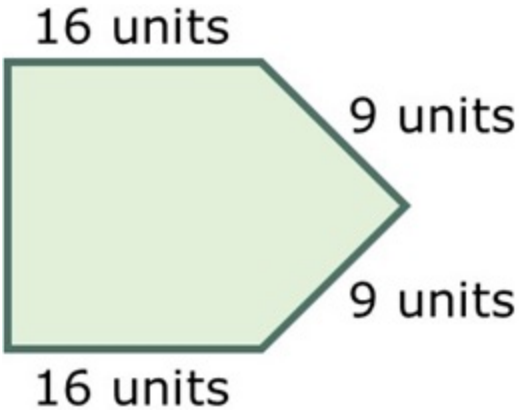
Question 69 : 1562075

The model is shaded to represent a fraction.

Which equation also represents the shaded part of the model?

A	$\frac{1}{6}+\frac{1}{6}+\frac{1}{6}+\frac{1}{6}=\frac{4}{6}$	B	$\frac{1}{6}+\frac{1}{6}+\frac{1}{6}=\frac{4}{6}$
C	$\frac{1}{6}+\frac{1}{6}=\frac{2}{6}$	D	$\frac{1}{4}+\frac{1}{4}=\frac{2}{4}$

Question 70 : 1563288



The lengths of four sides of a polygon are shown above. The perimeter of the polygon is 68 units. What is the missing side length?

A	50 units
B	25 units
C	18 units
D	9 units

Question 71 : 1565126

Which statement about the number 64 is true?

A	It is odd, because the digit in the tens place is odd.
B	It is even, because the digit in the tens place is even.
C	It is even, because it can be divided by 2 evenly.
D	It is odd, because it can be divided by 3 evenly.

Question 72 : 1562074

Ted ate $\frac{1}{4}$ of a pizza on Monday, Wednesday, and Friday.

Which equation can be used to find the fraction of a pizza that Ted ate on these three days?

A	$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{12}$
B	$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{1}{12}$
C	$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{3}{3}$
D	$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$