Name: _____ Date: _____

Assessment Guide
Cumulative Review 1

50

Suggested Time:
45 min

Section A   Multiple-Choice Questions   (10 × 2 = 20 points)

1 Look at the number 5,837. What does the digit 5 stand for?

(A) 5

(B) 50

(C) 500

(D) 5,000

2 Which of the following have the same value as nine thousand three hundred seventeen?
Choose the **two** correct answers.

(A) 9,317

(B) 9,000 + 30 + 10 + 7

(C) 9,000 + 30 + 1 + 7

(D) 9,000 + 300 + 10 + 7

(E) 9,000 + 300 + 1 + 7

3 What are the missing numbers?

9,850 = 9 thousands + _____ hundreds + _____ tens
          + 10 ones

(A) 8 and 5

(B) 8 and 4

(C) 7 and 5

(D) 7 and 4

4 Which list shows counting on by hundreds?

A 3,000 4,000 5,000 6,000

B 5,200 5,400 5,600 5,800

C 7,300 7,400 7,500 7,600

D 9,110 9,120 9,130 9,140

5 Which numbers, when rounded to the nearest hundred, are 400? Choose the **three** correct answers.

A 342

B 352

C 417

D 448

E 451

F 470

6 Which expression could be used to find the value of 412 + 569?

A 4 + 5 + 1 + 6 + 2 + 9

B 40 + 50 + 10 + 60 + 6 + 9

C 400 + 500 + 1 + 6 + 2 + 9

D 400 + 500 + 10 + 60 + 2 + 9

7 Malia had a bag of rice with a mass of 1,453 grams.
She used 860 grams of rice.
How many grams of rice did Malia have left?

(**A**) 2,313

(**B**) 2,193

(**C**) 693

(**D**) 593

8 What are the missing numbers?

$86 - 35 = 86 - \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$

(**A**) 40 and 3   (**B**) 30 and 5

(**C**) 20 and 3   (**D**) 20 and 5

9 What is the missing digit?

$$\begin{array}{r} 5,\ 9\ 4\ 6 \\ -\ 1,\ \boxed{?}\ 0\ 8 \\ \hline 4,\ 4\ 3\ 8 \end{array}$$

(**A**) 1   (**B**) 3

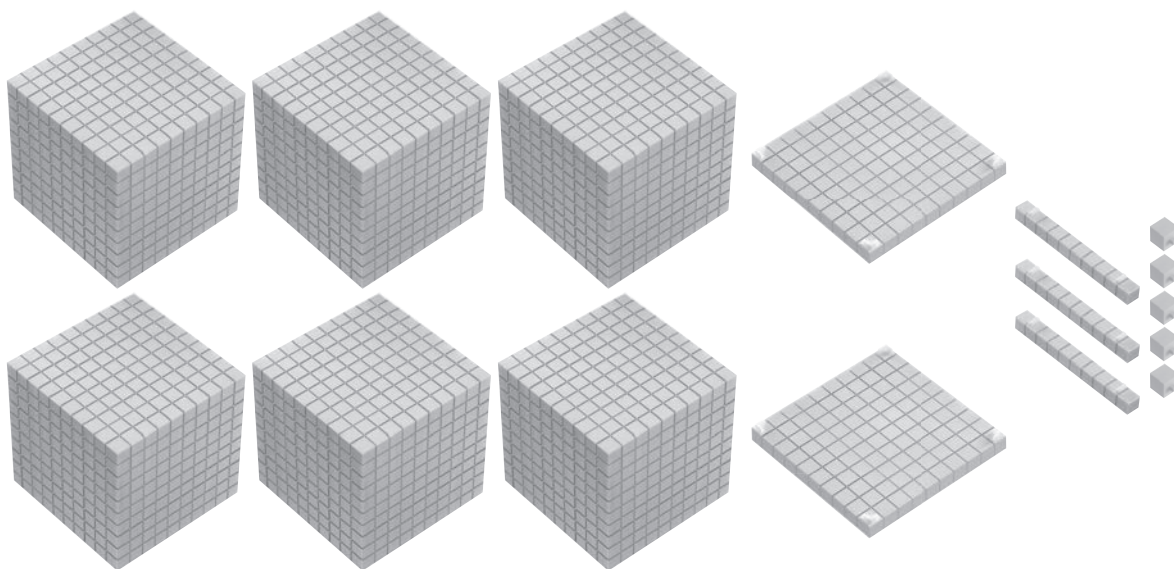(**C**) 5   (**D**) 7

10 Which equations are correct?
Choose the **three** correct answers.

(**A**) $699 - 345 = 354$

(**B**) $892 - 461 = 435$

(**C**) $1,257 - 1,125 = 135$

(**D**) $1,480 - 1,360 = 120$

(**E**) $2,568 - 1,263 = 1,305$

11 What number is shown by the model?

Write your answer in the answer grid.

12 Look for a pattern. What is the missing number?

2,308   2,328   2,348   2,368   _____

Write your answer in the answer grid.

⊙	⊙	⊙	⊙	⊙	⊙
⓪	⓪	⓪	⓪	⓪	⓪
①	①	①	①	①	①
②	②	②	②	②	②
③	③	③	③	③	③
④	④	④	④	④	④
⑤	⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨	⑨

13 The students from a school went on a field trip.
The number of students when rounded to the nearest hundred is 300.
What is the greatest possible value of the number? Explain.

Write your answer and work or explanation in the space below.

14 3,786 concert tickets were sold on Saturday.
965 more tickets were sold on Sunday than on Saturday.
How many tickets were sold in the two days?

Show your work and write your answer in the space below.

15 5,789 + 2,346 =

Write your answer in the answer grid.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

16 2,000 − 975 =

Write your answer in the answer grid.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

17 An artist sold an oil painting for $4,305. He sold a watercolor painting for $849. How much did he receive in all?

Show your work and write your answer in the space below.

18 Student A wrote "62 + 29 = 62 + 20 + 9," and Student B wrote "62 + 29 = 62 + 30 − 1."

Are the two students correct? Explain.

Write your answer and your work or explanation in the space below.

19 Lauren is finding the difference between 2,057 and 975. She says, "The answer is 2,922 because I found the difference between each pair of digits in the ones, tens, and hundreds place." Identify the incorrect reasoning in Lauren's statement.

Write your explanation in the space below.

20 Mason ordered four numbers from greatest to least as shown.

6,741   6,714   647   6,071

Explain Mason's mistake.

Write your explanation in the space below.

Section C   Constructed Response

21 Isabel finds a pattern in a set of numbers. Then, she writes the next two numbers in the pattern.

4,025   4,020   4,015   4,010   <u>4,000</u>   <u>3,990</u>

- Explain Isabel's mistake.
- What numbers should Isabel have written in the blanks?
- Explain how you arrived at your answers.

Write your answers and your work or explanation in the space below.

22 Movie tickets are sold at two booths, A and B. Booth A had 295 more tickets than Booth B at first. 58 were tickets were moved from Booth A to Booth B.

- Explain which booth had more tickets in the end.
- Find how many more tickets one booth had than the other.

Write your answers and your work or explanation in the space below.

23 Alan has $20. He wants to buy some stationery from a store.

Cost of Stationery

Item	Cost
Diary	$11.59
File	$5.88
Stapler	$3.10
Paintbrush	$3.00
Scissors	$2.25

- Alan buys a few different items. He wants only one of each item. Which items should he buy so that he has the least change left?
- Explain how you arrived at your answer.

Write your answer and your work or explanation in the space below.

Assessment Guide
Cumulative Review 2

50

Suggested Time:
45 min
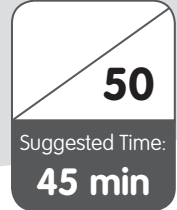
Section A   Multiple-Choice Questions   (10 × 2 = 20 points)

1 Which multiplication fact can be used to find 24 ÷ 3?

Ⓐ 2 × 12 = 24

Ⓑ 3 × 8 = 24

Ⓒ 4 × 6 = 24

Ⓓ 12 × 2 = 24

2 Mason multiplied a list of numbers by 6. Which statement describes the products?

Ⓐ All the products are odd.

Ⓑ All the products are even.

Ⓒ All the products have the digit 6 in the ones place.

Ⓓ Some of the products are odd and some of the products are even.

3 Which expressions are equal to 360?
Choose the **three** correct answers.

Ⓐ 3 × 12   Ⓑ 3 × 60

Ⓒ 8 × 45   Ⓓ 9 × 40

Ⓔ 30 × 6   Ⓕ 120 × 3

4 A multiplication fact is shown below.

$8 \times 9 = 72$

Which division problems can be solved using this multiplication fact? Choose the **two** correct answers.

(A) $9 \div 8 = ?$ (B) $8 \div 9 = ?$

(C) $9 \div 72 = ?$ (D) $72 \div 9 = ?$

(E) $8 \div 72 = ?$ (F) $72 \div 8 = ?$

5 Which problem can be solved by finding $36 \div 9$?

(A) Ana had 9 bags of marbles. There were 36 marbles in each bag. Find the total number of marbles.

(B) Ana put 36 marbles into bags. She put 9 marbles in each bag. Find the total number of bags.

(C) Ana had 36 marbles. She gave 9 marbles to her brother. Find the number of marbles she had left.

(D) Ana had 9 marbles. She found 36 more marbles. Find the number of marbles in all.

6 Which equation is correct?

(A) $7 + 7 + 7 + 7 = 21$

(B) $8 \times 5 = 45$

(C) $54 \div 9 = 6$

(D) $72 \div 12 = 7$

7 What is the missing digit in each box?

$$
\begin{array}{r}
3\ 2\ \boxed{?} \\
\times\qquad 7 \\
\hline
2,\ 2\ 7\ \boxed{?}
\end{array}
$$

(A) 1

(B) 3

(C) 5

(D) 7

8 There are 7 bowls.
Each bowl has 8 cherries.
How many cherries are there in all?

(A) 56

(B) 54

(C) 15

(D) 13

9 Jason packed 42 buttons equally into 7 packets.
How many buttons did he pack into each packet?

(A) 6

(B) 7

(C) 8

(D) 9

10 Zoey has 7 necklaces.
She has 3 times as many bracelets as necklaces.
How many bracelets and necklaces does Zoey have in all?

(**A**) 28

(**B**) 18

(**C**) 10

(**D**) 4

Section B   Short Answer Questions

11 $84 \div 12 =$

Write your answer in the answer grid.

⊙	⊙	⊙	⊙	⊙	⊙
⓪	⓪	⓪	⓪	⓪	⓪
①	①	①	①	①	①
②	②	②	②	②	②
③	③	③	③	③	③
④	④	④	④	④	④
⑤	⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨	⑨

12   Lucas says, "11 ÷ 11 = 0 because dividing a number by itself gives nothing." Is Lucas correct? Explain.

Write your answer and your work or explanation in the space below.

13 $345 \times 5 =$

Write your answer in the answer grid.

⊙	⊙	⊙	⊙	⊙	⊙
⓪	⓪	⓪	⓪	⓪	⓪
①	①	①	①	①	①
②	②	②	②	②	②
③	③	③	③	③	③
④	④	④	④	④	④
⑤	⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨	⑨

14 Mr. Lee arranges 4 rows of chairs in a room. There are 15 chairs in each row. How many chairs are there in all?

Show your work and write your answer in the space below.

15 Carla has 18 beads. Paige has 6 times as many beads as Carla. How many beads do they have in all?

Show your work and write your answer in the space below.

16 Store A sold 86 boxes of strawberries. Store B sold 9 more boxes of strawberries than Store A. There were 6 strawberries in each box. How many strawberries did Store B sell?

Show your work and write your answer in the space below.

17 Ella is making 9 treat bags for her birthday party.
She cuts 81 centimeters of ribbon into equally sized pieces to tie her treat bags. After she finishes, she realizes that she needs to make 3 more treat bags.
How many more centimeters of ribbon does Ella need?

Show your work and write your answer in the space below.

18 This question has three parts.

Part A

Liam wants to buy 7 boxes of colored pencils. There are 24 colored pencils in each box. He says, "There are 148 colored pencils in all."
Is he correct? Explain.

Write your answer and your work or explanation in the space below.

Part B

Each box of colored pencils costs $7. Liam has $50. Does he have enough money to pay for the 7 boxes of colored pencils? Explain.

Write your answer and your work or explanation in the space below.

Part C

Liam buys a box of 40 erasers.
The erasers are shared equally among 6 children.
What is the greatest number of erasers each child can get? Explain.

Write your answer and your work or explanation in the space below.

Section C   Constructed Response

19 Ryan divides 63 by 9. He says that the quotient is 54 because addition is the opposite of division and $9 + 54 = 63$.

- Explain Ryan's mistake.
- What is the correct answer?
- Explain how you arrived at your answer.

Write your answer and your work or explanation in the space below.

20 Sara uses the digits 6, 1, 8, and 5 once to form a multiplication equation that gives the greatest product.

| ? | ? | ? | × | ? | = _____

- What is the equation Sara formed?
- Explain how you arrived at your answer.

Write your answer and your work or explanation in the space below.

21 There are 30 chicks and horses in a farm.
Each chick has 2 legs.
Each horse has 4 legs.
The chicks and horses have 100 legs in all.

- How many chicks are there?
- How many horses are there?

Write your answers and your work or explanations in the space below.

Assessment Guide
Cumulative Review 3

50

Suggested Time:
45 min

Section A   Multiple-Choice Questions   (10 × 2 = 20 points)

1 The liquid from four measuring cups will completely fill a container. What is the capacity of the container?
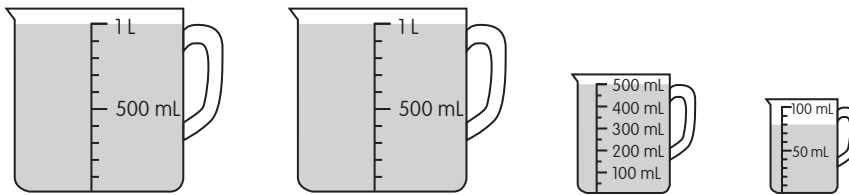
A 20 liters 580 milliliters

B 2 liters 580 milliliters

C 2 liters 508 milliliters

D 1 liter 158 milliliters

2 Jayla draws a rectangle. The shorter side of the rectangle is 4 inches long. The longer side of the rectangle is 7 inches long. Which expression is equal to the perimeter of the rectangle?

A 7 + 4

B 7 × 4

C 7 + 7 + 4 + 4

D 7 × 7 × 4 × 4

3 Which figure shows that $\frac{3}{4}$ of it is shaded?

Choose the **two** correct answers.

A

B

C

D

E

F
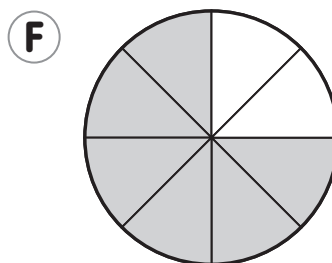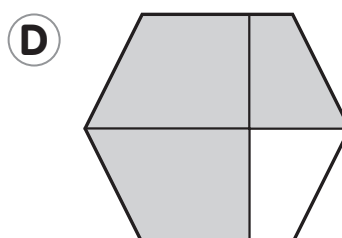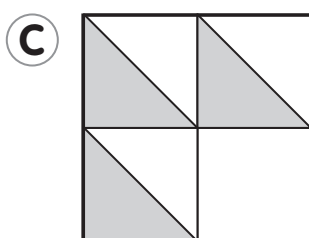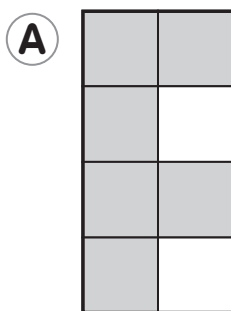
4 Isabella has a rectangular treasure box. One side along the top is 7 inches long. Another side along the top is 6 inches long.
Which statement describes the top of the treasure box?

A It has a perimeter of 26 inches and an area of 42 square inches.

B It has a perimeter of 26 inches and an area of 13 square inches.

C It has a perimeter of 13 inches and an area of 42 square inches.

D It has a perimeter of 42 inches and an area of 26 square inches.

5 The area of each small square is a square unit.
What is the area of the figure?
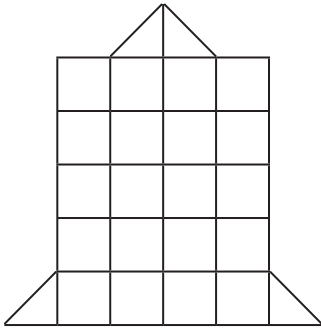
(A) 20 square units

(B) 22 square units

(C) 23 square units

(D) 24 square units

6 Which fraction is equivalent to $\frac{3}{4}$?
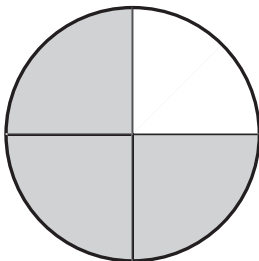
(A) $\frac{3}{8}$

(B) $\frac{4}{8}$

(C) $\frac{6}{8}$

(D) $\frac{1}{4}$

7 Kylie buys 3,200 grams of white rice and 2,900 grams of brown rice. What is the total mass of the rice Kylie buys?

(A) 5 kilograms 10 grams

(B) 5 kilograms 100 grams

(C) 6 kilograms 10 grams

(D) 6 kilograms 100 grams

8 Miguel buys a packet of flour. What is the mass of the packet of flour?
Choose the **two** correct answers.
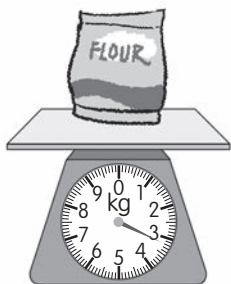
(A) 320 grams

(B) 3,020 grams

(C) 3,200 grams

(D) 30 kilograms 20 grams

(E) 3 kilograms 200 grams

9 The volume of a bowl of punch is 4,580 milliliters.
What is its volume in liters and milliliters?

(A) 45 liters 80 milliliters   (B) 4 liters 850 milliliters

(C) 4 liters 580 milliliters   (D) 4 liters 58 milliliters

10 Compare the fractions. Which of the following describes the fractions?
Choose the **two** correct answers.

$\frac{2}{3}$

$\frac{2}{4}$

(A) $\frac{2}{3} > \frac{2}{4}$ (B) $\frac{2}{3} < \frac{2}{4}$

(C) $\frac{2}{4}$ is greater than $\frac{2}{3}$.   (D) $\frac{2}{3}$ is greater than $\frac{2}{4}$.

(E) $\frac{2}{4}$ is equal to $\frac{2}{3}$.

Section B   Short Answer Questions

11 Write the fraction that represents the shaded part of the set.
Write each answer in the blank.

A   B   C

Set A: _____

Set B: _____

Set C: _____

12 David has a rectangular backyard. Its length is 9 feet and its width
is 6 feet. Hana has a square backyard. The length of its side is
8 feet. What is the total area of the two backyards?

Show your work and write your answer in the space below.

13 What is $\frac{2}{6}$ of 18?

Write your answer in the answer grid.

⊙	⊙	⊙	⊙	⊙	⊙
⓪	⓪	⓪	⓪	⓪	⓪
①	①	①	①	①	①
②	②	②	②	②	②
③	③	③	③	③	③
④	④	④	④	④	④
⑤	⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨	⑨

14 Look at the number lines.
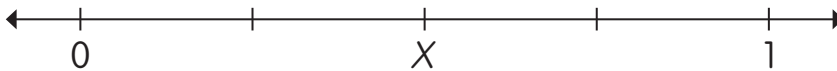
- What are the values of the numbers X and Y as fractions? Explain.
- Are the two fractions equivalent?

Write your answers and your work or explanation in the space below.

15 Ella had the amount of water shown.
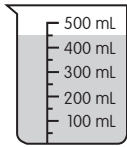
She used some water to make tea and had 175 milliliters of water left. How much water did Ella use to make tea?

Show your work and write your answer in the space below.

16 A barrel contains 9 liters 40 milliliters of water. How many milliliters of water does the barrel contain?

Show your work and write your answer in the space below.

17 Diego pours $\frac{3}{8}$ liter of apple juice, $\frac{1}{8}$ liter of carrot juice, and $\frac{5}{8}$ liter of beetroot juice into containers.
Shade the models to show each fraction.
Which fraction is the greatest? Explain.

Show your work and write your answer in the space below.

apple juice

carrot juice

beetroot juice

18 Claire wrote "$\frac{1}{4} > \frac{1}{3}$" and explained that it is because 4 is greater than 3.
Is she correct? Explain.

Write your answer and your work or explanation in the space below.

19 This question has two parts.

Part A
Callia's quilt is made up of rows of 1-foot squares of cloth.
There are 7 rows with 4 squares in each row.
What is the area of her quilt?

Show your work and write your answer in the space below.

Part B
16 square feet of her quilt is purple. The rest of her quilt is white.
What is the area of her quilt that is white?

Show your work and write your answer in the space below.

Section C Constructed Response

20 Aiden placed Point M on the number line.
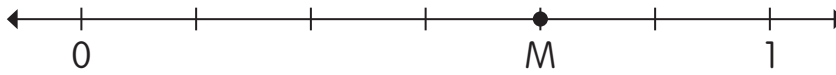
Aiden said that M represents $\frac{5}{6}$.

- Explain Aiden's mistake.
- What should the correct answer be?
- Explain how you arrived at your answer.

Write your answer and your work or explanation in the space below.

21 Ethan has a 3-liter jug and a 5-liter jug.
He wants to measure exactly 4,000 milliliters of water.
Explain how he can use the jugs to do so.

Write your answer and your work or explanation in the space below.

22 The figure is made up of two identical squares.
Its perimeter is 56 feet.
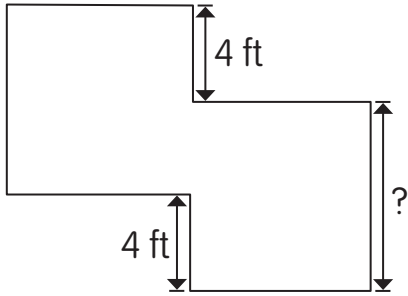
- Find the length of the unknown side.
- What is the area of the figure?

Show your work and write your answers in the space below.

Assessment Guide
Cumulative Review 4

50

Suggested Time:
45 min

Section A   Multiple-Choice Questions

(10 × 2 = 20 points)

1 How many minutes are there in 3 hours?

(A) 300

(B) 120

(C) 180

(D) 80

2 How many pairs of parallel line segments does this shape have?
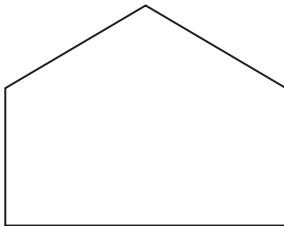
(A) 1

(B) 2

(C) 3

(D) 5

3 Which shape has the same number of angles as a square?

A

B

C

D
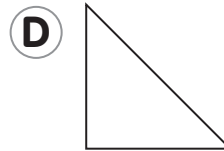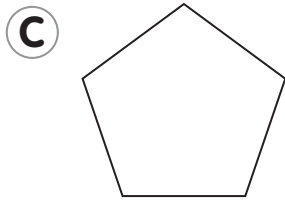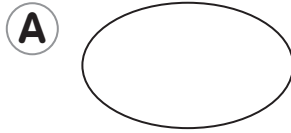
4 Peter measured the lengths of some line segments to the nearest half inch. Then, he made a line plot of the data.
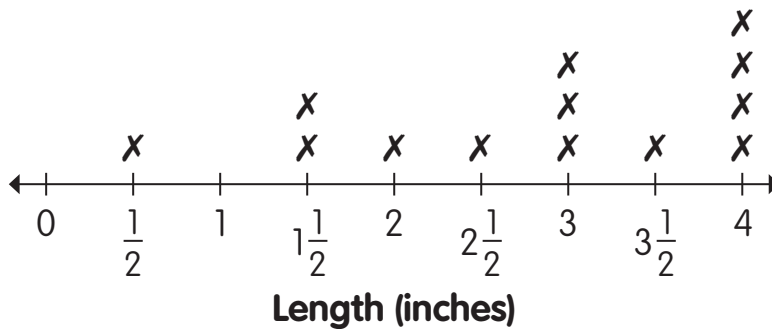
Length (inches)

How many line segments have a length of $3\frac{1}{2}$ inches or more?

A 1

B 3

C 4

D 5

5 Lilian starts swimming at 4:15 P.M. She finishes swimming 40 minutes later. Which clock shows the time that Lilian finishes swimming?

A

B

C

D
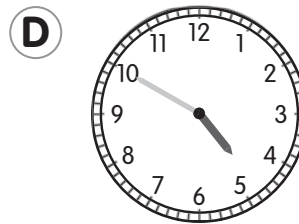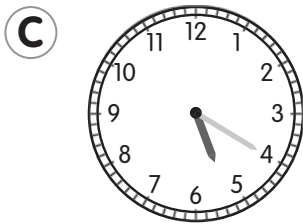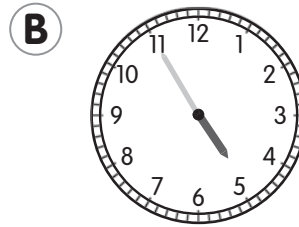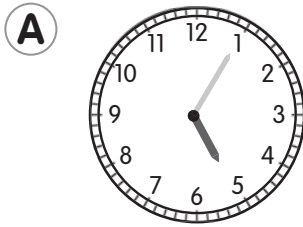
6 Which pairs of lines are perpendicular?
Choose the **two** correct answers.
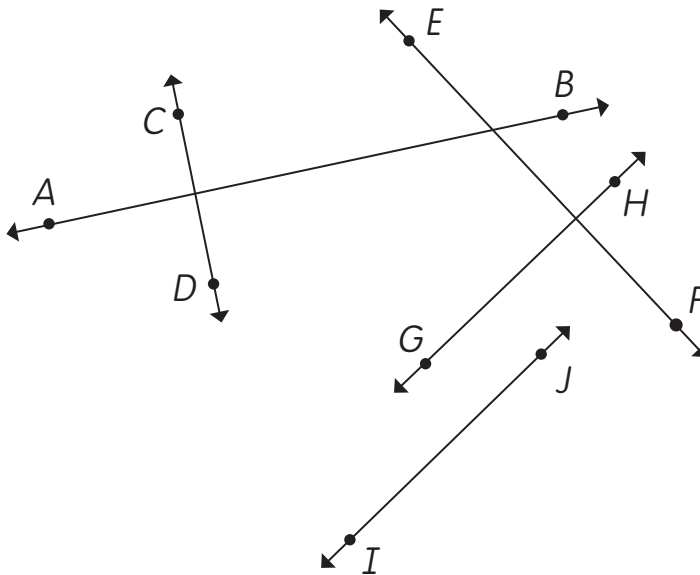
A Lines *AB* and *CD*

B Lines *CD* and *EF*

C Lines *EF* and *GH*

D Lines *GH* and *IJ*

E Lines *IJ* and *AB*

7 Which statement describes the shape?
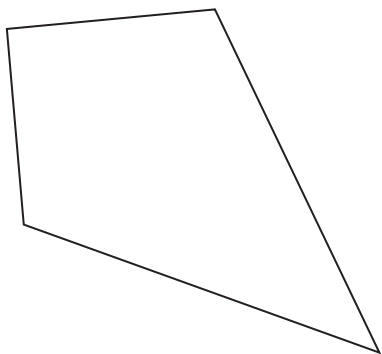
    A It has 1 right angle.

    B It has 2 right angles.

    C It has 3 angles less than a right angle.

    D It has 3 angles greater than a right angle.

8 Which of the following statements are correct?
Choose the **two** correct answers.

    A A hexagon has 7 sides and 6 angles.

    B All squares have 4 angles.

    C A pentagon has 6 angles.

    D A triangle has 3 vertices.

    E A circle is a polygon.

9 The bar graph shows the number of books sold each day at a book fair.

Number of Books Sold
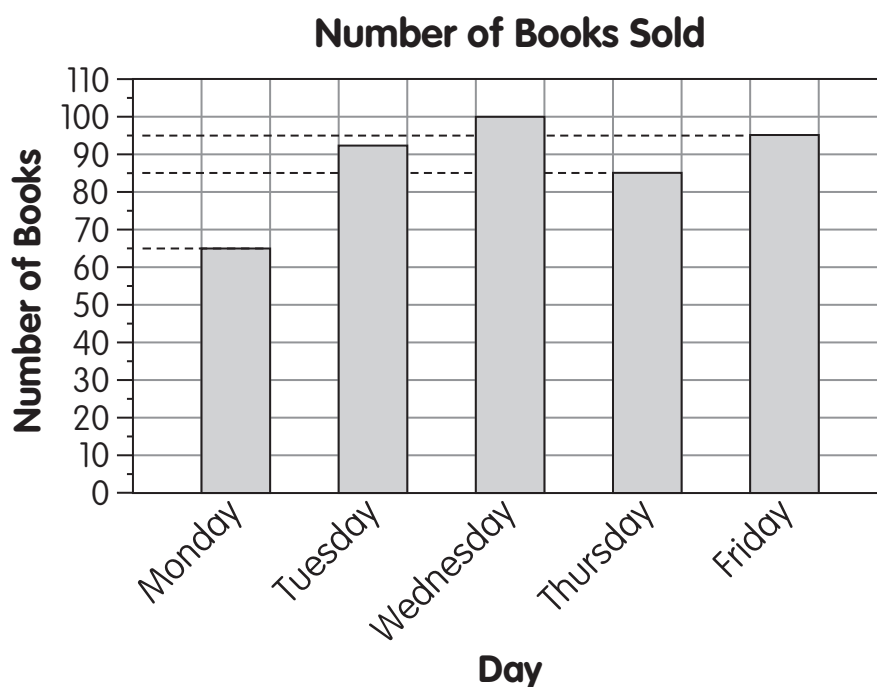
On which days were the number of books sold fewer than 90? Choose the **two** correct answers.

A Monday

B Tuesday

C Wednesday

D Thursday

E Friday

10 The bar graph shows the number of boxes of cereal Mr. Davis
sold at his store last year.

Number of Boxes of Cereals Sold
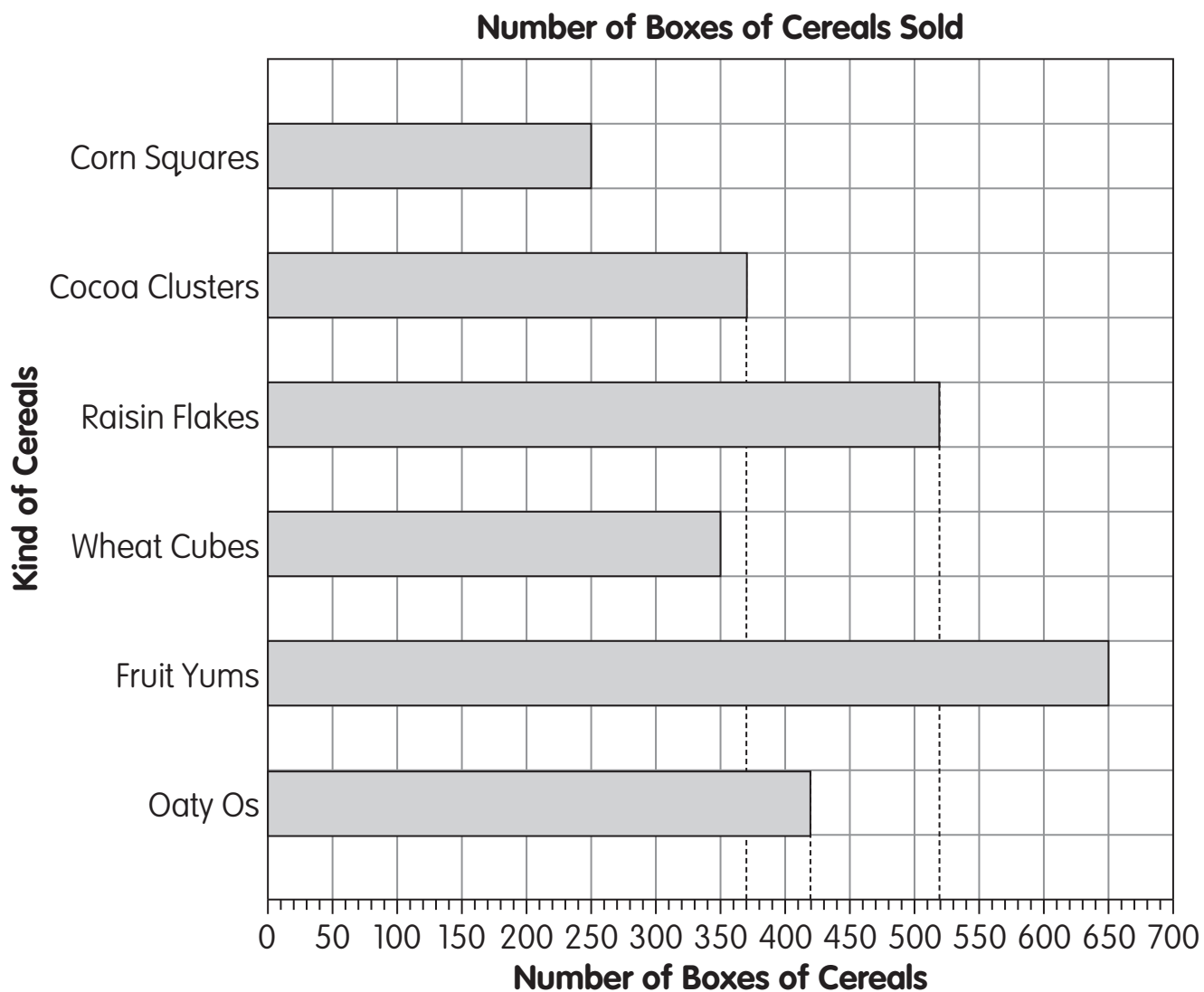
Which two kinds of cereals did Mr. Davis sell 890 boxes altogether?

A Corn Squares and Fruit Yums

B Oaty Os and Cocoa Clusters

C Cocoa Clusters and Raisin Flakes

D Raisin Flakes and Wheat Cubes
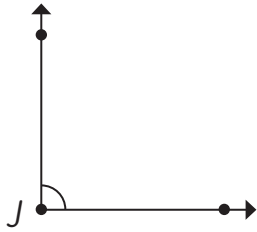
Section B   Short Answer Questions

11 Bryan wrote "138 min = 1 h 38 min."
Explain Bryan's mistake.

Write your explanation in the space below.

12 Vanessa says, "A polygon with 4 sides and 4 vertices is a square."
Is she correct? Explain.

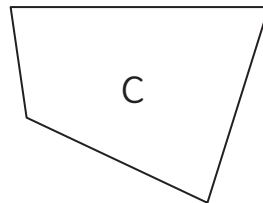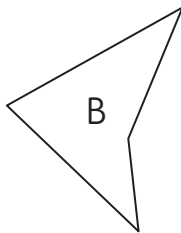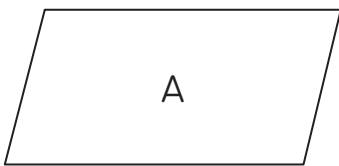Write your answer and explanation in the space below.

13 Use the letters below to complete the sentences.
Write each answer in the blank.
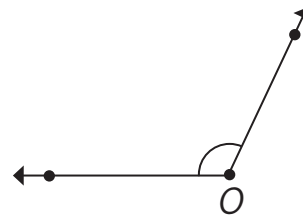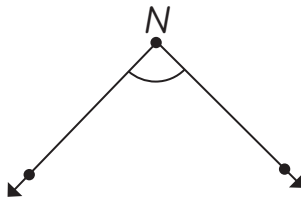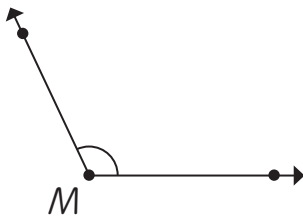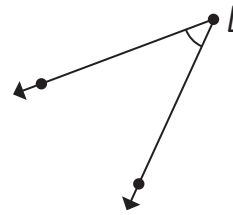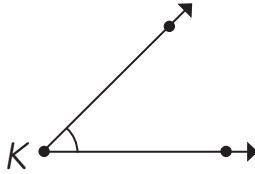
Angles _____ and _____ are less than a right angle.

Angles _____ and _____ are greater than a right angle.

14 Use the letter that represents each shape to complete the sentence.

Write each answer in the blank.

Shapes _____ and _____ have two pairs of parallel sides.

15 Natalie watches a performance for 2 hours 10 minutes.
How many minutes is equal to 2 hours 10 minutes?

Write your answer in the answer grid.

⊙	⊙	⊙	⊙	⊙	⊙
⓪	⓪	⓪	⓪	⓪	⓪
①	①	①	①	①	①
②	②	②	②	②	②
③	③	③	③	③	③
④	④	④	④	④	④
⑤	⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨	⑨

16 Use the letters below to complete the sentence.

Write each answer in the blank.

A E H L W

Letters _____, _____, and _____ have perpendicular lines.

17 Eli left his home at 1:50 P.M. He returned home at 7:40 P.M.

How long was Eli away from his home?
Give your answer in hours and minutes.

Show your work and write your answer in the space below.

18 The picture graph shows the favorite after-school activities of the third graders at Buchanan Elementary School.
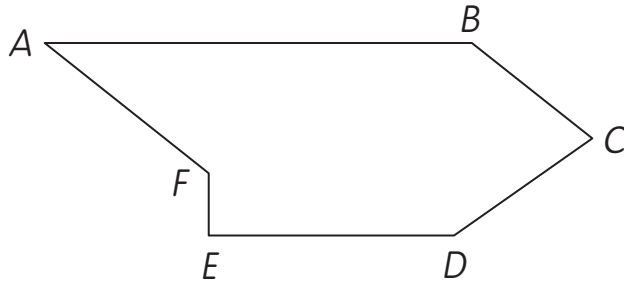
Favorite After-School Activities

| Dance | Gymnastics | Karate | Swimming |

Key: Each 🙂 stands for 5 students.
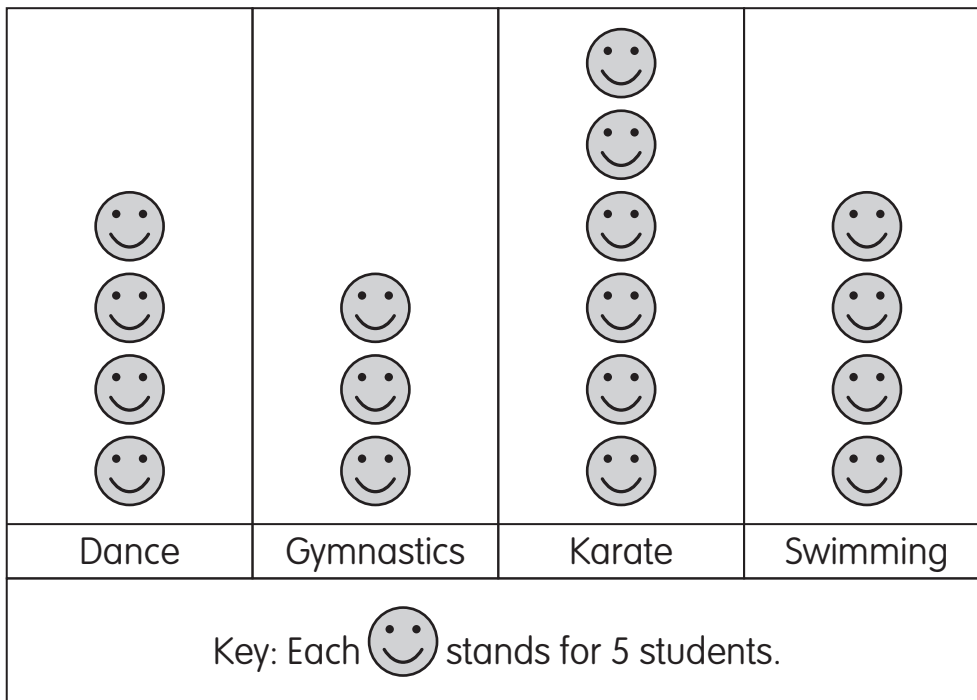
Write the answer in the blank.

_____ more students chose karate than gymnastics as their favorite after-school activity.
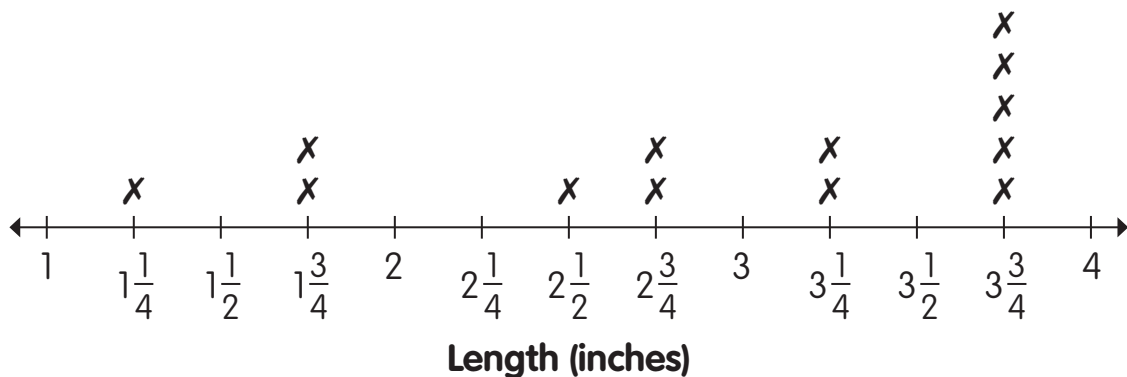
19 Use the letters below to complete the sentences.

Write each answer in the blank.

Line segment _____ and Line segment _____ are parallel.

Line segment _____ and Line segment _____ are parallel.

20 Grace measured the lengths of some ropes to the nearest half inch or quarter inch. Then, she made a line plot of the data.

Length (inches)

Grace said that 3 ropes are shorter than $2\frac{3}{4}$ inches because she found ✗ above the 3 markings: the $1\frac{1}{4}$-inch mark, the $1\frac{3}{4}$-inch mark, and the $2\frac{1}{2}$-inch mark.
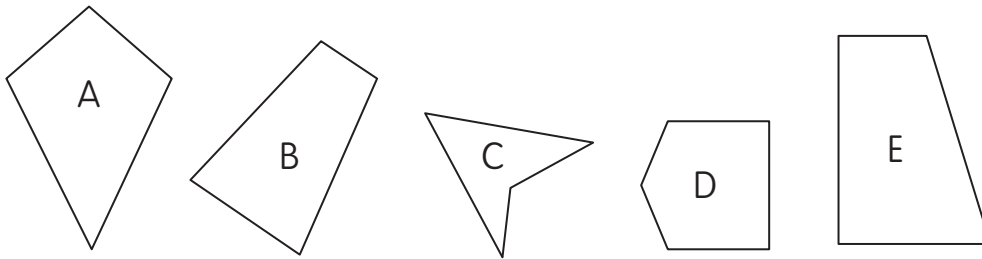Identify the incorrect reasoning in her statement.

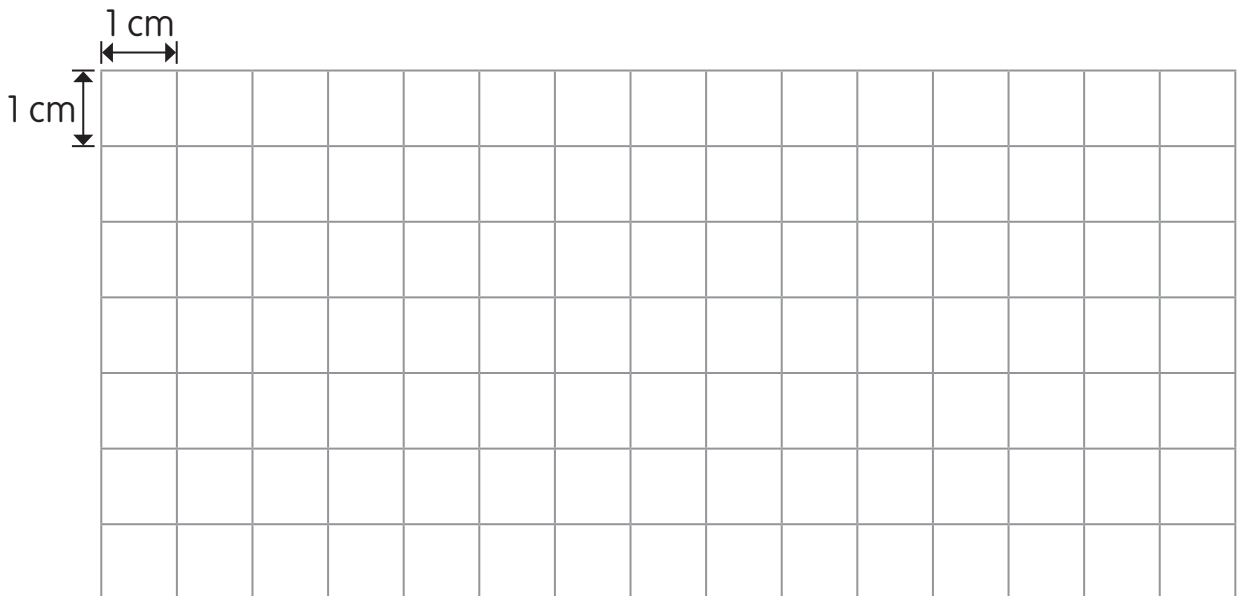Write your explanation in the space below.

Section C   Constructed Response

21 Kevin draws five shapes.

- Which shape is not a quadrilateral?
- Draw a quadrilateral with two pairs of parallel lines, four equal sides, and no right angles. What is the name of this quadrilateral?

Write your answer in the space below, and draw the quadrilateral in the grid below.

22 Bus Service A leaves a station every 12 minutes.
The first bus leaves the station at 8:00 A.M.
Ariana wants to take Bus Service A.
She reaches the station at 8:45 A.M.
What is the earliest time she can board the bus?

Show your work and write your answer in the space below.

23 The lengths of six line segments are measured to the nearest half or quarter inch.

Line segment	A	B	C	D	E	F
Length (inches)	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{4}$

Draw the line segments in the space below.

Show your data on the line plot.

Length (inches)