

3RD GRADE SUMMER MATH PACKET



- 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?
- $9,850 = 9 \text{ thousands} + \underline{\hspace{2cm}} \text{ hundreds} + \underline{\hspace{2cm}} \text{ tens}$
 $\quad \quad \quad + 10 \text{ ones}$
- (A) 8 and 5
 - (B) 8 and 4
 - (C) 7 and 5
 - (D) 7 and 4

- 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

- 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?

$$\begin{array}{r} 5, 946 \\ - 1, \boxed{?}08 \\ \hline 4, 438 \end{array}$$

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

- 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.

- 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) and (22): 3 points each;
(23): 4 points)

- (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 4,000 3,990

- 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.

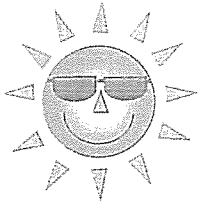
- 23 Alan has \$20. He wants to buy some stationery from a store.

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.



3RD GRADE SUMMER MATH PACKET



- 1 Which multiplication fact can be used to find $24 \div 3$?
- (A) $2 \times 12 = 24$
 - (B) $3 \times 8 = 24$
 - (C) $4 \times 6 = 24$
 - (D) $12 \times 2 = 24$
- 2 Mason multiplied a list of numbers by 6. Which statement describes the products?
- (A) All the products are odd.
 - (B) All the products are even.
 - (C) All the products have the digit 6 in the ones place.
 - (D) 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.
- | | |
|-------------------|--------------------|
| (A) 3×12 | (B) 3×60 |
| (C) 8×45 | (D) 9×40 |
| (E) 30×6 | (F) 120×3 |

- 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.

- 7 What is the missing digit in each box?

$$\begin{array}{r} 32\boxed{?} \\ \times \quad 7 \\ \hline 2,27\boxed{?} \end{array}$$

- (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 to 18 Part A, 18 Part B;
18 Part C: 2 points each)

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

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.

- 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 and 20): 3 points each;
21: 4 points)

- 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.

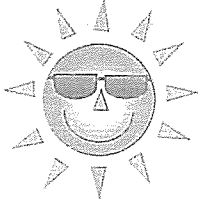
Write your answer and your work or explanation in the space below.

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

$$\boxed{?} \boxed{?} \boxed{?} \times \boxed{?} = \underline{\hspace{2cm}}$$

- 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.



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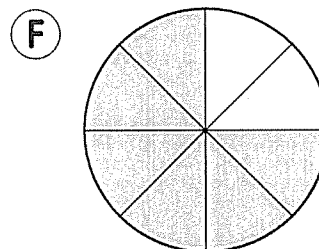
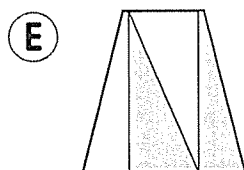
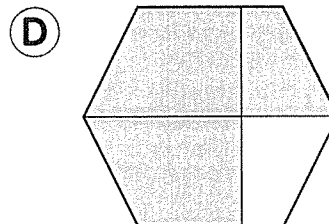
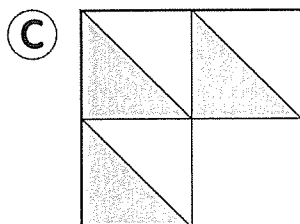
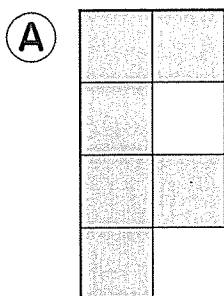


- 2 Jayla draws a rectangle. The shorter side of the rectangle is 4 inches long. The longer side of the rectangle is 7 inches long. Which expression is equal to the perimeter of the rectangle?

- (A) $7 + 4$
- (B) 7×4
- (C) $7 + 7 + 4 + 4$
- (D) $7 \times 7 \times 4 \times 4$

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

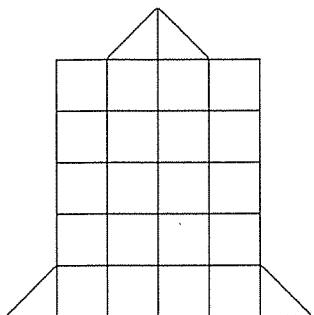
Choose the **two** correct answers.



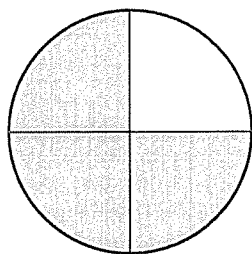
- 4 Isabella has a rectangular treasure box. One side along the top is 7 inches long. Another side along the top is 6 inches long. Which statement describes the top of the treasure box?

- (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.

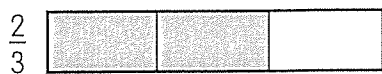
- 5 The area of each small square is a square unit.
What is the area of the figure?



- (A) 20 square units
(B) 22 square units
(C) 23 square units
(D) 24 square units
- 6 Which fraction is equivalent to $\frac{3}{4}$?



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



(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 to 19) Part A,
19 Part B: 2 points each)

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



A



B



C

Set A: _____

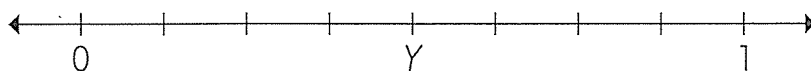
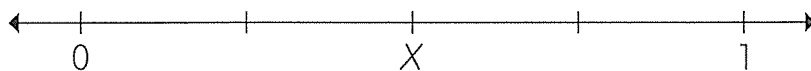
Set B: _____

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.

- 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.

- 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	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
carrot juice	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
beetroot juice	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								

- 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

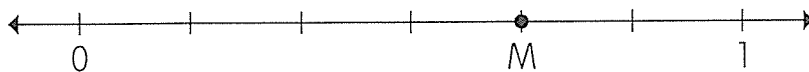
16 square feet of her quilt is purple. The rest of her quilt is white.
What is the area of her quilt that is white?

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

Section C Constructed Response

(20) and (21): 3 points and
(22): 4 points)

- (20) Aiden placed Point M on the number line.



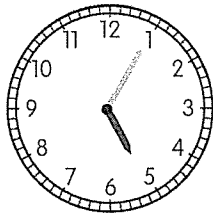
Aiden said that M represents $\frac{5}{6}$.

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

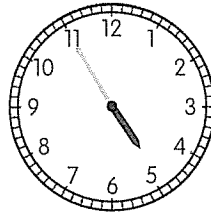
Write your answer and your work or explanation in the space below.

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

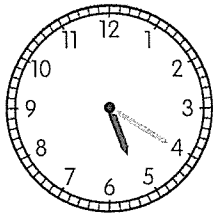
A



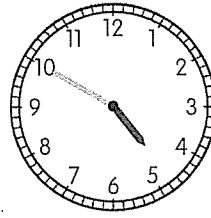
B



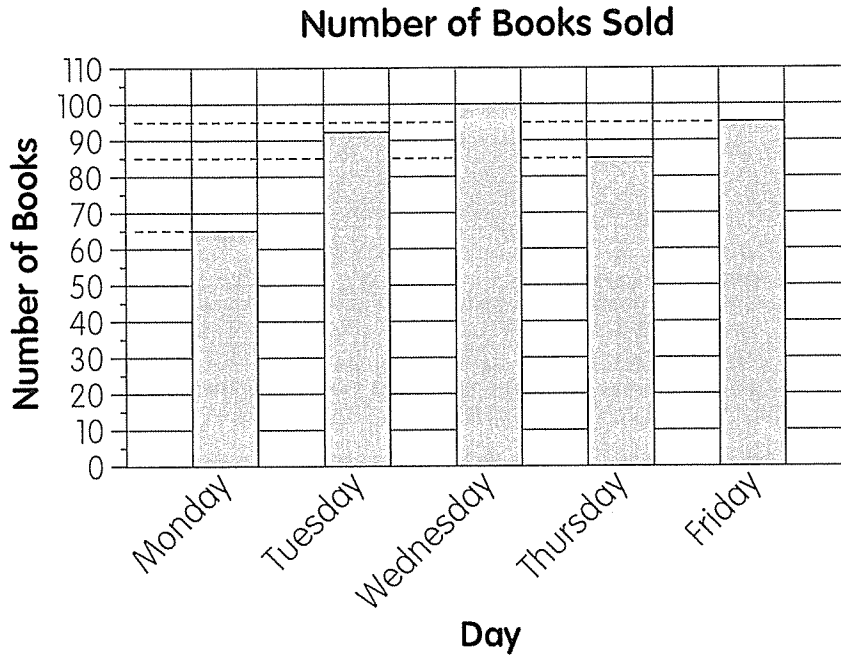
C



D



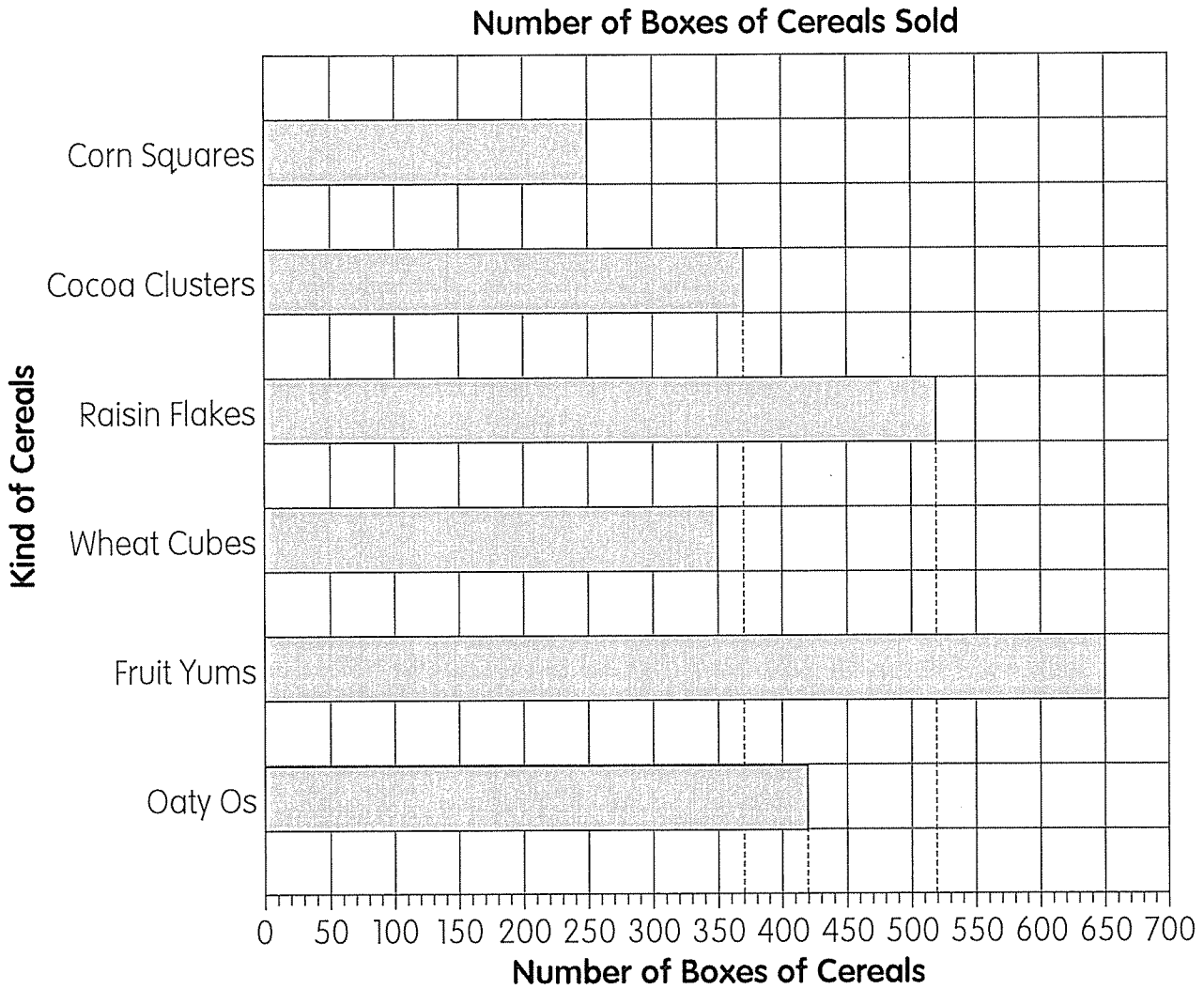
- 9 The bar graph shows the number of books sold each day at a book fair.



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.



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

(10 × 2 = 20 points)

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

Write your explanation in the space below.

- 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

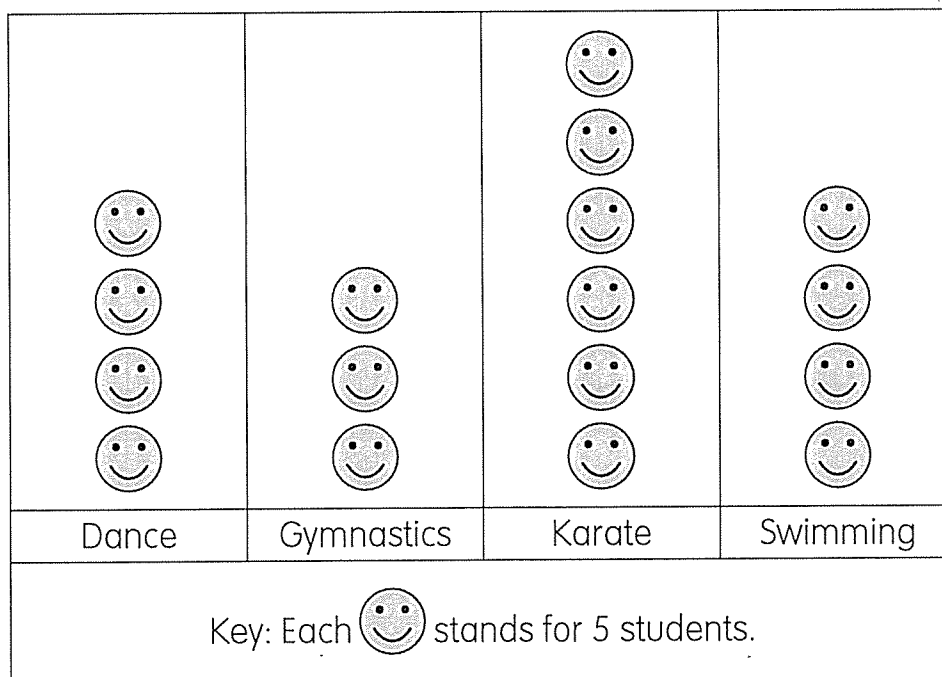
- 17 Eli left his home at 1:50 P.M. He returned home at 7:40 P.M.

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



Write the answer in the blank.

_____ more students chose karate than gymnastics as their favorite after-school activity.