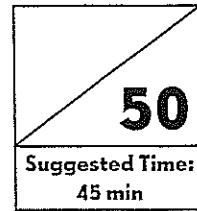


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Benchmark Assessment 1

## for Chapters 1 to 5



### Multiple Choice

(10 × 2 points = 20 points)

Fill in the circle next to the correct answer.

1. What is the standard form of  $6 + 200 + 9,000$ ?  
(A) 926      (B) 9,026      (C) 9,206      (D) 9,260
  
2. Which of these numbers is the least?  
(A) 3,659      (B) 3,569      (C) 3,596      (D) 3,956
  
3. When 3,173 is added to 4,141, which digit is in the tens place of the answer?  
(A) 1      (B) 3      (C) 4      (D) 7
  
4. Estimate the value of  $1,783 + 624$  by rounding each number to the nearest hundred.  
(A) 2,390      (B) 2,400      (C) 2,410      (D) 2,412

Name: \_\_\_\_\_

Date: \_\_\_\_\_

5. Add 3,699 and 2,405.

(A) 1,294      (B) 5,004      (C) 5,104      (D) 6,104

6. Find the difference between 5,006 and 1,887.

(A) 3,119      (B) 4,221      (C) 6,883      (D) 6,893

7.  $5,637 + 98 = ?$

(A)  $5,637 - 2$       (B)  $5,737 - 2$   
(C)  $5,737 + 2$       (D)  $5,637 + 2$

8.  $6,344 - 4,538 = ?$

(A)  $100 + 60 + 8$       (B)  $1,000 + 800 + 6$   
(C)  $1,000 + 600 + 8$       (D)  $1,000 + 800 + 8$

9. Mr. Taylor earns \$2,850.  
Mr. Blake earns \$945 less than Mr. Taylor.  
How much do they earn in all?

(A) \$1,905      (B) \$3,795      (C) \$4,755      (D) \$6,645

Name: \_\_\_\_\_

Date: \_\_\_\_\_

10. There are 260 members in a chess club.  
186 of them are boys.  
How many more boys than girls are there?

(A) 62                      (B) 74                      (C) 112                      (D) 186

### Short Answer

(10 × 2 points = 20 points)

Write the answer in the space given.

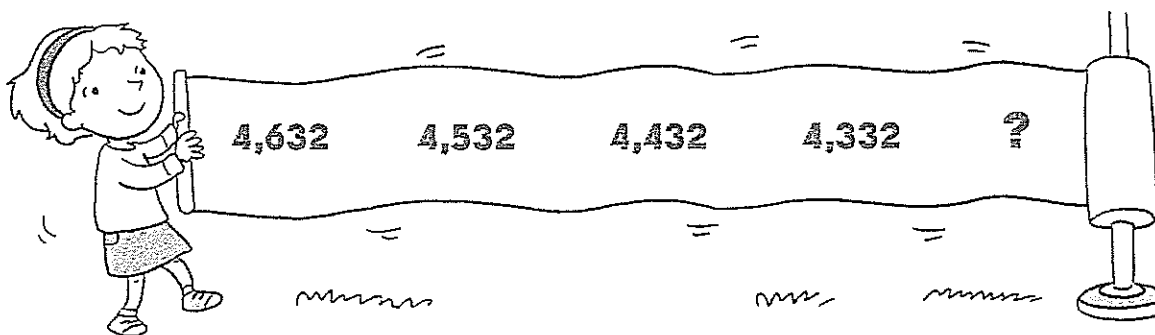
11. Write seven thousand, forty-one in standard form.

\_\_\_\_\_

12. In 4,765, what is the value of the digit 4?

\_\_\_\_\_

13. What is the next number in the number pattern?



\_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

14. A wholesaler buys 9,568 pounds of rice.  
Round this amount to the nearest 100 pounds.

\_\_\_\_\_ lb

15. Find the sum of 7,598 and 1,234.

\_\_\_\_\_

16. What number belongs in the box?

$$6,971 = \boxed{\phantom{000}} + 2,384$$

\_\_\_\_\_

17. The digits in the boxes are the same.  
What is the missing digit?

$$\begin{array}{r} \boxed{\phantom{000}}, 4 \ 3 \ 5 \\ + \ 2, \boxed{\phantom{000}} \ 8 \ 9 \\ \hline 9, \ 1 \ 2 \ 4 \end{array}$$

\_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**18.** What number must be added to 5,555 to get 7,000?

\_\_\_\_\_

**19.** A can of mushroom soup has a mass of 504 grams.  
The mass of a can of tomato soup is 217 grams less than  
the mass of the mushroom soup.  
What is the mass of the can of tomato soup?

\_\_\_\_\_ g

**20.** Claire scores 2,586 points in a computer game.  
Hanson scores 829 fewer points in the same game.  
How many points did they score in all?

\_\_\_\_\_ points

**Extended Response**

(Question 21: 6 points, Question 22: 4 points)

**Solve. Show your work.**

- 21.** Mavis had 4,405 mangoes and oranges.  
She sold 1,396 mangoes and 1,210 oranges at the market.  
How many fruits does Mavis have left?

Mavis has \_\_\_\_\_ fruits left.










- 22.** The total cost of a television set and a DVD player is \$1,987.  
The DVD player costs \$658.  
What is the difference in price between the two items?










The difference in price between the two items is \$\_\_\_\_\_.


# Bonus Questions

**Solve.**

1. What number does each of these symbols represent?  
Use the numbers from 1 through 5.


			
+			
<hr style="width: 80%; margin: 0 auto;"/>			
			

			
-			
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 = \_\_\_\_\_

 = \_\_\_\_\_

 = \_\_\_\_\_

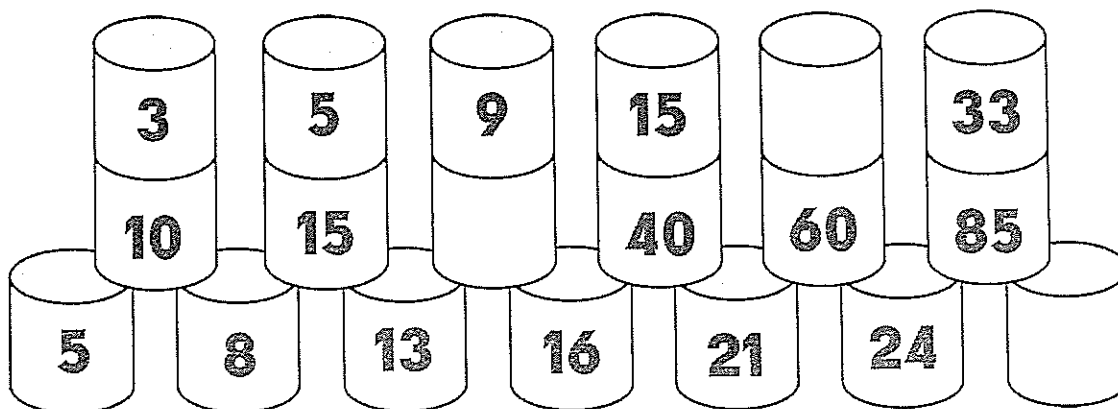
 = \_\_\_\_\_

 = \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

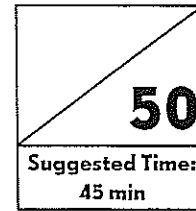
2. In each row, there is a can which does not have a number.  
Fill in the missing numbers to complete the pattern.





# Benchmark Assessment 2

## for Chapters 10 to 15



### Multiple Choice

(10 × 2 points = 20 points)

Fill in the circle next to the correct answer.

1. Find the missing numerator.

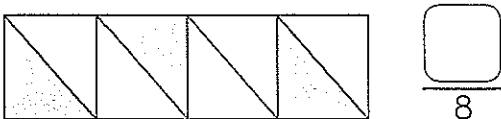
$$\frac{3}{5} = \frac{\boxed{\phantom{000}}}{75}$$

- (A) 15                      (B) 35                      (C) 45                      (D) 73

2. Which fraction is the least?

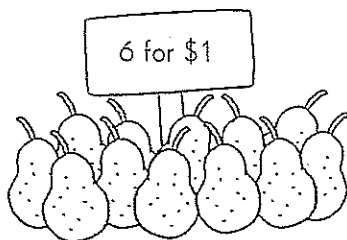
- (A)  $\frac{1}{2}$                       (B)  $\frac{3}{4}$                       (C)  $\frac{3}{6}$                       (D)  $\frac{1}{8}$

3. What fraction of the figure is shaded?  
Find the missing numerator.



- (A) 2                      (B) 3                      (C) 5                      (D) 8

4. A fruit seller receives \$120 for selling pears.  
How many pears did he sell?

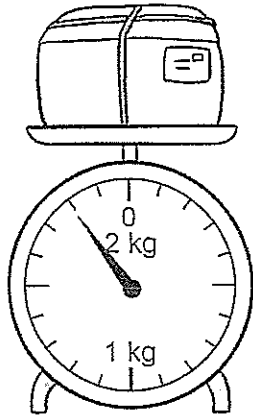


- (A) 20                      (B) 114                      (C) 126                      (D) 720

5. Larry buys a bag of oranges for \$1.29.  
He gives the cashier a \$5 bill.  
How much change does Larry get back?

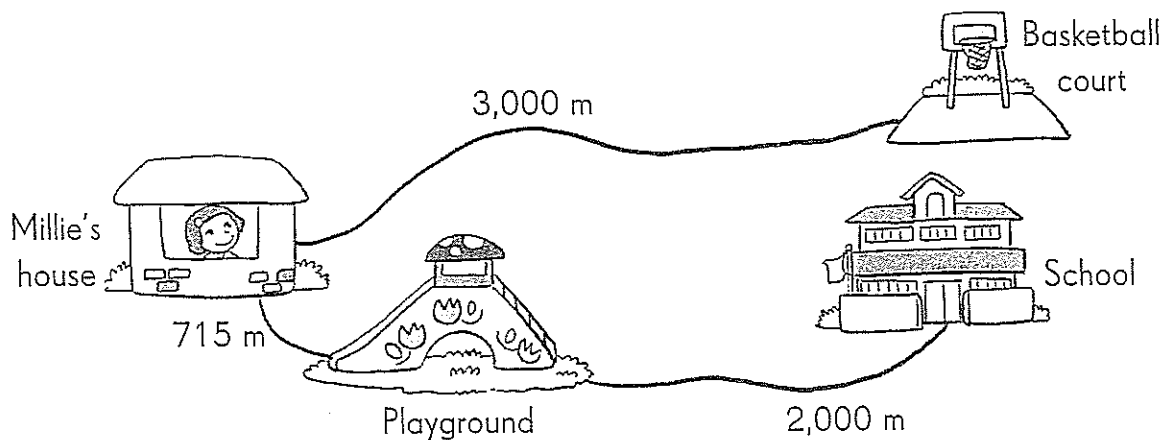
(A) \$3.71      (B) \$3.79      (C) \$3.81      (D) \$4.29

6. What is the mass of the package?



(A) 200 g      (B) 800 g  
(C) 1 kg 530 g      (D) 1 kg 800 g

7. How much farther from Millie's house is the basketball court than the school?

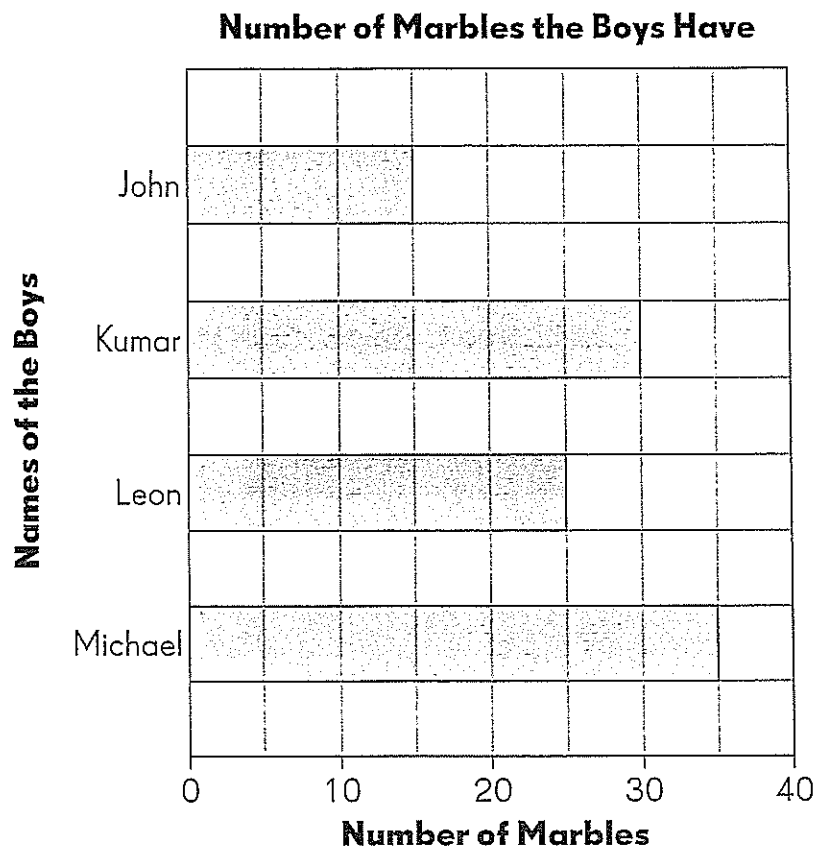


(A) 285 m      (B) 825 m      (C) 1,285 m      (D) 1,715 m

Name: \_\_\_\_\_

Date: \_\_\_\_\_

8. The bar graph shows the number of marbles four boys have. Who has twice as many marbles as John?



- (A) John      (B) Kumar      (C) Leon      (D) Michael

9. Which pair of fractions is equivalent?

- (A)  $\frac{1}{2}$  and  $\frac{3}{10}$       (B)  $\frac{3}{4}$  and  $\frac{6}{8}$   
 (C)  $\frac{1}{4}$  and  $\frac{4}{12}$       (D)  $\frac{5}{6}$  and  $\frac{9}{12}$

10. Which unit of measurement should you use to measure the weight of your cat?

- (A) cups      (B) ounces      (C) inches      (D) pounds

**Short Answer**

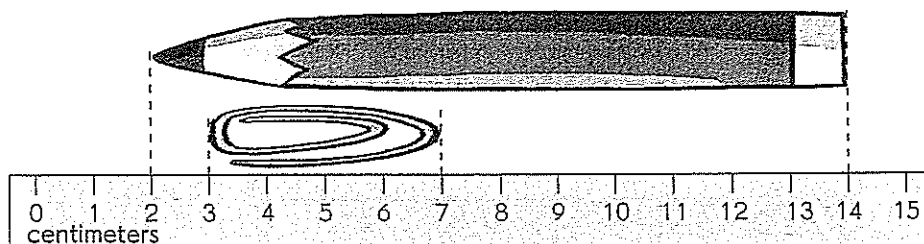
(10 × 2 points = 20 points)

**Write the answer in the space given.**

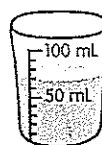
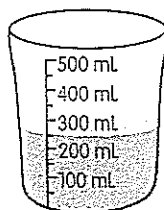
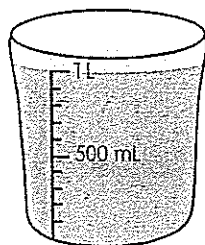
11. Angela uses 5 containers of clay to make a sculpture. Each container of clay has a mass of 142 grams. What is the mass of Angela's sculpture?

\_\_\_\_\_ g

12. The paper clip is \_\_\_\_\_ centimeters shorter than the pencil.



13. What is the total volume of water in the three containers below?



\_\_\_\_\_ mL

14. There are 265 marbles in a bag. The marbles will be shared equally among 2 boys and 3 girls.  
How many marbles will each child receive?

\_\_\_\_\_ marbles

15. Find the missing denominator in the fraction below.

$$5 = \frac{35}{\boxed{\phantom{000}}}$$

Name: \_\_\_\_\_

Date: \_\_\_\_\_

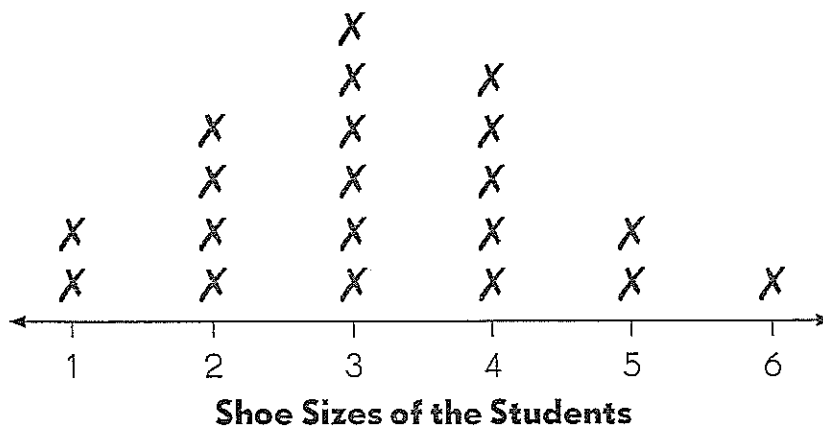
16. Sandy has 15 muffins.  
She gives 4 muffins to her friends.  
What fraction of the muffins does she give to her friends?

\_\_\_\_\_

17. What is  $\frac{2}{5}$  of 20?

\_\_\_\_\_

18. The line plot shows the shoe sizes of all the students in Ms. Ford's class.  
Each X stands for 1 student.



How many students in Ms. Ford's class have a shoe size smaller than 3?

\_\_\_\_\_ students

19. Order the fractions from least to greatest.

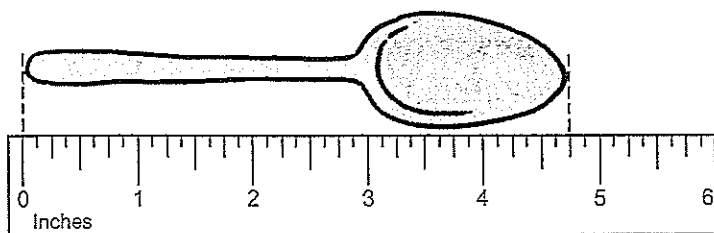
$$\frac{1}{2} \quad \frac{3}{4} \quad \frac{5}{8}$$

\_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

20. Find the length of the spoon to the nearest quarter inch.



\_\_\_\_\_ in.

### Extended Response

(Questions 21 and 22:  $2 \times 3 = 6$  points,  
Question 23: 4 points)

**Solve. Show your work.**

21. Mrs. Brighton has been visiting the gym on a regular basis. She now weighs 162 pounds. Six months ago, she weighed 190 pounds. How many pounds did she lose?

Mrs. Brighton lost \_\_\_\_\_ pounds.

22. Jane buys a loaf of bread and a package of cheese. The loaf of bread costs \$1.80. The cheese costs \$0.75 more than the loaf of bread. How much does Jane spend in all?

Jane spends \$\_\_\_\_\_ in all.

- 23.** A pot contains 1,000 milliliters of oil.  
Mrs. Raja uses the oil from the pot to fill 6 bottles.  
Each bottle has a capacity of 160 milliliters.  
How much oil is left in the pot?

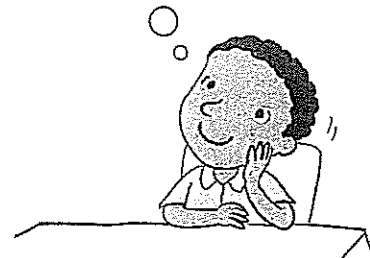
\_\_\_\_\_ milliliters of oil is left in the pot.

### Bonus Questions

#### Solve. Show your work.

- 1.** Rob wants a regular allowance.  
His father gives him two options.  
Option 1: His father would give him \$12 a week.  
Option 2: His father would give him 10¢ every Monday.  
Then, for all the other days in the week, he would give Rob  
twice the amount he gave him the day before.  
Which option should Rob choose in order to get the greater allowance?

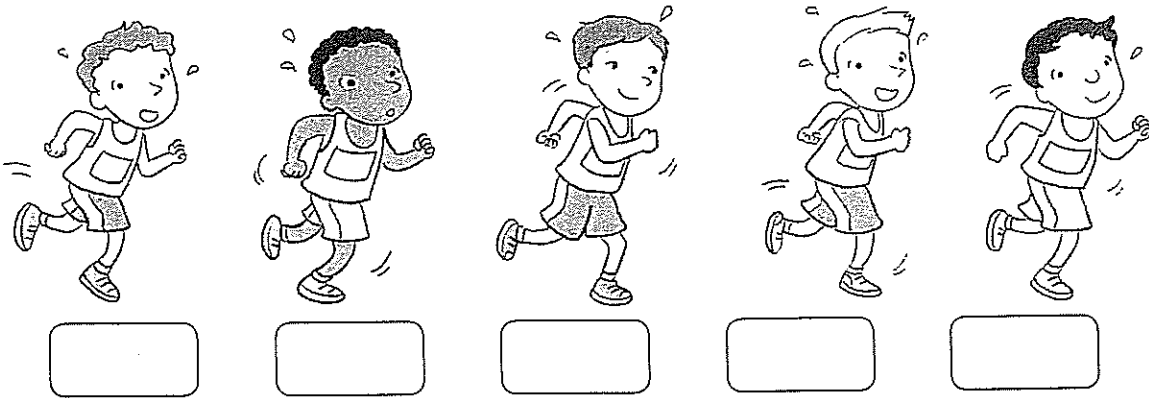
\$12 a week or  
10¢ on Monday,  
20¢ on Tuesday, ...?



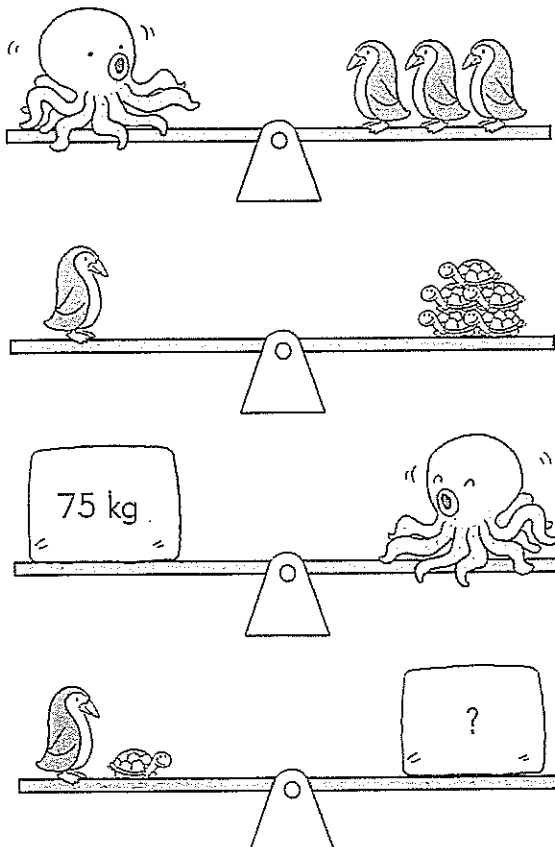
Name: \_\_\_\_\_

Date: \_\_\_\_\_

2. Ali, Ben, Charlie, Derek, and Erwin are running in a race.  
 Ali is 60 meters ahead of Ben.  
 Charlie is 50 meters behind Ali.  
 Ben is 40 meters behind Derek.  
 Erwin is 20 meters ahead of Charlie.  
 Write the names of the boys in the boxes.



3. What is the total mass of a penguin and a turtle?



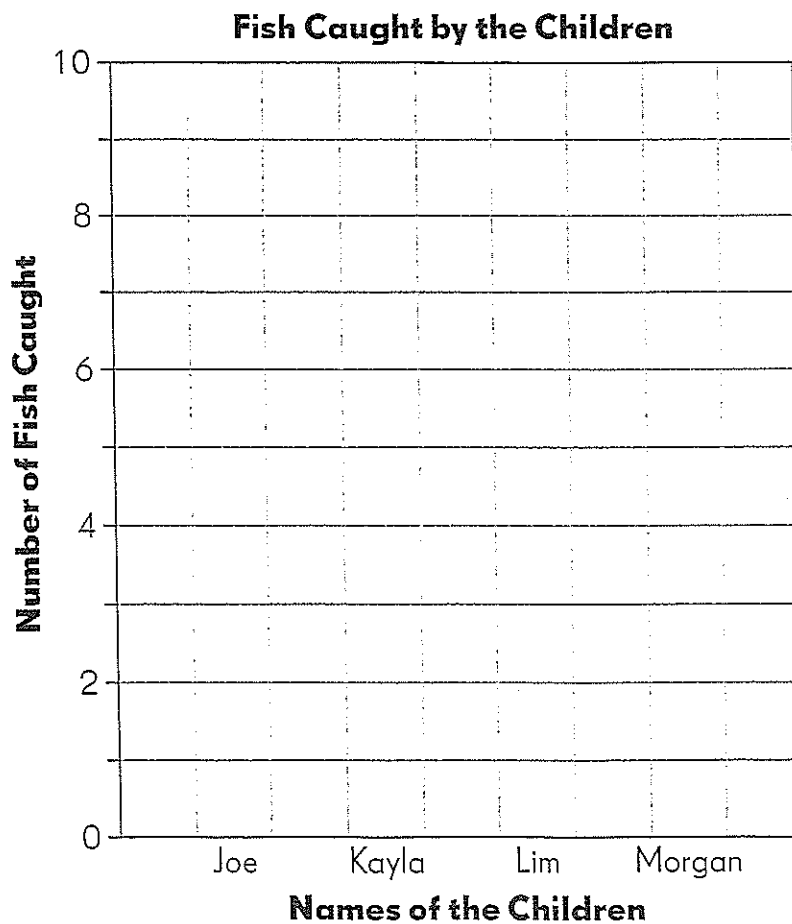
\_\_\_\_\_ kg



Name: \_\_\_\_\_

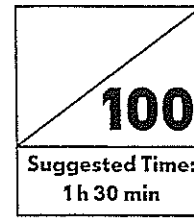
Date: \_\_\_\_\_

4. Joe, Kayla, Lim, and Morgan are fishing.  
 They catch a total of 20 fish.  
 Each one catches an even number of fish.  
 Joe catches twice as many fish as Kayla.  
 Joe catches the greatest number of fish.  
 Morgan catches fewer than 5 fish.  
 Each child catches a different number of fish.  
 How many fish does each child catch?  
 Write the numbers on their pails and complete the bar graph.





# End-of-Year Test



## Multiple Choice

(20 × 2 points = 40 points)

Fill in the circle next to the correct answer.

1. In which number does the digit 7 have the greatest value?  
(A) 1,784      (B) 4,817      (C) 7,148      (D) 8,714
2. Which of the following is equal to 9,410?  
(A) Nine thousand forty-one      (B)  $9,010 + 40$   
(C)  $9,000 + 400 + 1$       (D) 94 hundreds and 1 ten
3. What is the missing number?  
 $- 45 = 517 + 5$   
(A) 477      (B) 522      (C) 567      (D) 572
4. What number is 3,578 rounded to the nearest hundred?  
(A) 3,500      (B) 3,570      (C) 3,580      (D) 3,600
5. Add 4,386 and 1,403.  
(A) 2,893      (B) 2,983      (C) 5,789      (D) 5,879
6. What do you get when you subtract 15 tens from 25 hundreds?  
(A) 10      (B) 100      (C) 2,350      (D) 2,650

7.

$$\begin{array}{l} \text{☎} \times 9 = \text{☎} \\ \text{☎} \times 7 = 819 \end{array}$$

What does ☎ stand for?

- (A) 13      (B) 91      (C) 117      (D) 637

8.

What do you get when you divide 123 by 5?

- (A) 24 R 0      (B) 24 R 3      (C) 25 R 2      (D) 25 R 3

9.

Judy has 20 dolls.

Janice buys another doll. Janice has twice as many dolls as Judy now.  
How many dolls does Janice have at first?

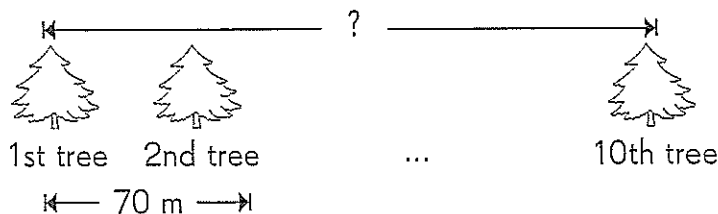
- (A) 21      (B) 39      (C) 40      (D) 42

10.

There are 10 trees along a road.

The distance between every 2 trees is 70 meters.

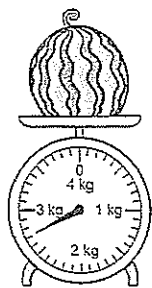
What is the distance between the first tree and the tenth tree?



- (A) 7 km      (B) 770 m      (C) 700 m      (D) 630 m

11.

What is the mass of the watermelon?

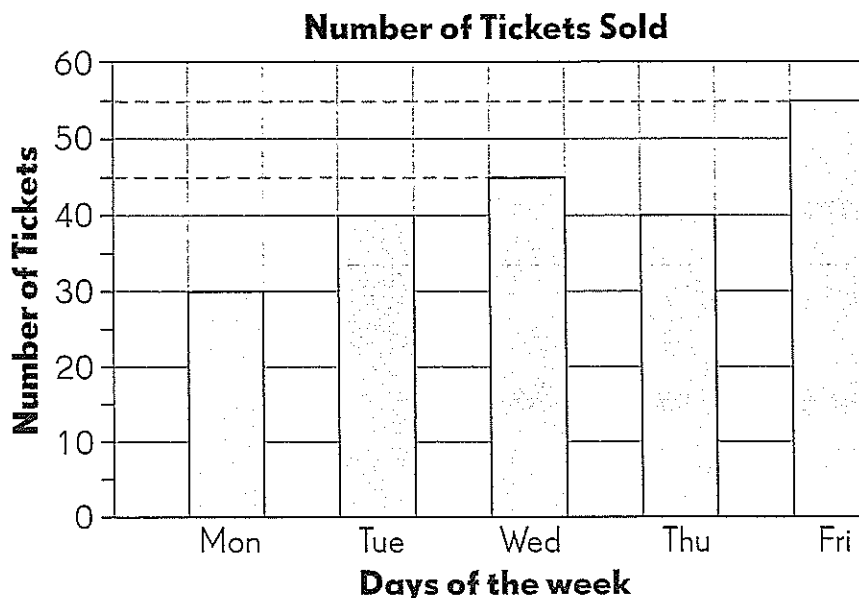


- (A) 2 kg 7 g      (B) 2 kg 70 g      (C) 2 kg 700 g      (D) 2 kg 7,000 g

12. A string is 380 centimeters long.  
A ribbon is 114 centimeters shorter than the string.  
How long is the ribbon?

(A) 114 cm      (B) 194 cm      (C) 266 cm      (D) 494 cm

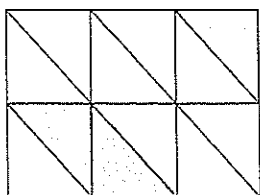
13. The bar graph shows the number of tickets sold for a magic show from Monday through Friday.



How many tickets were sold from Wednesday through Friday?

(A) 100      (B) 115      (C) 140      (D) 210

14. How many more triangles must be shaded so that  $\frac{2}{3}$  of the figure is shaded?

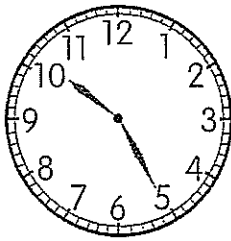


(A) 3      (B) 5      (C) 6      (D) 8

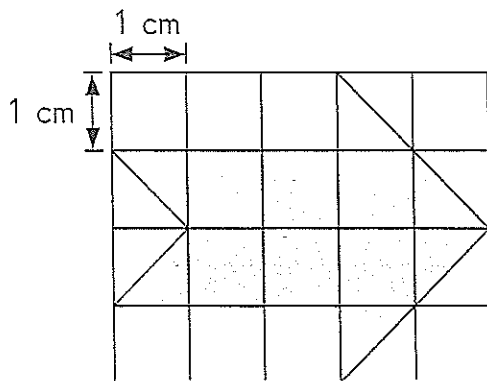
15. Which measurement best represents the length of a bed?

(A) 6 cm      (B) 6 in.      (C) 6 ft      (D) 6 m

16. What is the time shown on the clock?



- (A) 25 minutes to 11      (B) 35 minutes to 10  
(C) 5 minutes past 10      (D) 25 minutes past 10
17. Add.  
 $3 \text{ h } 15 \text{ min} + 2 \text{ h } 55 \text{ min} = \boxed{\phantom{0000}}$   
(A) 5 h 70 min    (B) 6 h    (C) 6 h 10 min    (D) 6 h 15 min
18. How many sides does a hexagon have?  
(A) 4      (B) 5      (C) 6      (D) 8
19. Find the perimeter of a rectangle with a length of 8 feet and width of 6 feet.  
(A) 14 ft      (B) 20 ft      (C) 22 ft      (D) 28 ft
20. The area of each square is 1 square centimeter.  
Find the area of the shaded figure.



- (A)  $9 \text{ cm}^2$       (B)  $11 \text{ cm}^2$       (C)  $12 \text{ cm}^2$       (D)  $20 \text{ cm}^2$

**Short Answer**

(20 × 2 points = 40 points)

**Write the answer in the space given.**

21. Complete the number pattern.

3,530    \_\_\_\_\_    3,500    3,485    3,470

22. What is the least even number that can be made with the digits 4, 7, 1, and 2? Use each digit only once.

\_\_\_\_\_

23. What is the missing number?

$$378 + 58 = \boxed{\phantom{000}} + 6$$

\_\_\_\_\_

24. Mary has \$895.  
She wants to buy a computer but she needs \$620 more.  
How much does the computer cost?

\$ \_\_\_\_\_

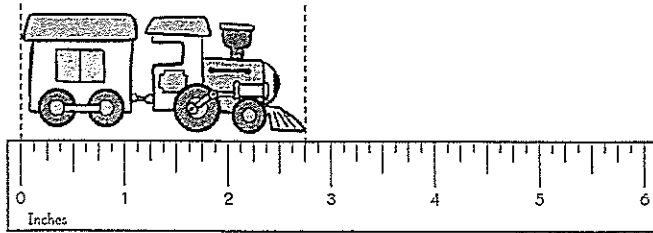
25. Chantel ordered 720 sandwiches for a school party.  
After the party, 86 sandwiches were left.  
How many sandwiches did the students eat?

\_\_\_\_\_ sandwiches

Name: \_\_\_\_\_

Date: \_\_\_\_\_

35. What is the length of the toy train to the nearest quarter inch?



\_\_\_\_\_ in.

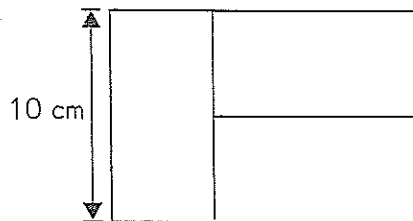
36. A puppet show lasts for 50 minutes.  
The show ends at 8:05 P.M.  
What time does the show start?

\_\_\_\_\_ P.M.

37. It takes 40 minutes to bake a tray of muffins.  
How many hours does it take to bake 3 trays of muffins  
one after the other?

\_\_\_\_\_ hours

38. Sally cuts a rectangular piece of paper into three identical smaller  
rectangles as shown.  
The width of the paper is 10 centimeters.  
What is the area of the paper?



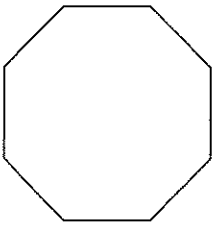
\_\_\_\_\_ cm<sup>2</sup>



Name: \_\_\_\_\_

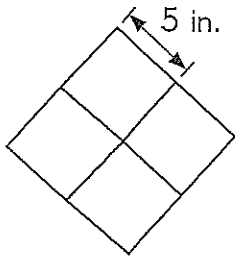
Date: \_\_\_\_\_

39. What is the name of this shape?



\_\_\_\_\_

40. The big square is made up of four identical small squares. Each small square has a side length of 5 inches. What is the perimeter of the big square?



\_\_\_\_\_ in.

### Extended Response

(5 × 4 points = 20 points)

**Solve. Show your work.**

41. Fiona collects 336 cans for recycling.  
Daniel collects 42 more cans than Fiona.  
Gary collects 61 fewer cans than Daniel.  
How many cans do they collect in total?

They collect \_\_\_\_\_ cans in total.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

- 42.** The Corner Bakery bakes 520 fruit tarts.  
The owner puts them in 6 boxes.  
Each box has the same number of fruit tarts.

**a.** How many fruit tarts are in each box?

There are \_\_\_\_\_ fruit tarts in each box.

**b.** How many fruit tarts are not in boxes?

There are \_\_\_\_\_ fruit tarts that are not in boxes.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

- 43.** Tank A has a capacity of 5,248 milliliters.  
Tank B has a capacity of 1,035 milliliters.  
Tank C has a capacity of 978 milliliters.  
What is the total capacity of the 3 tanks?  
Give your answer in liters and milliliters.

The total capacity of the 3 tanks is

\_\_\_\_\_ liters and \_\_\_\_\_ milliliters.

Name: \_\_\_\_\_

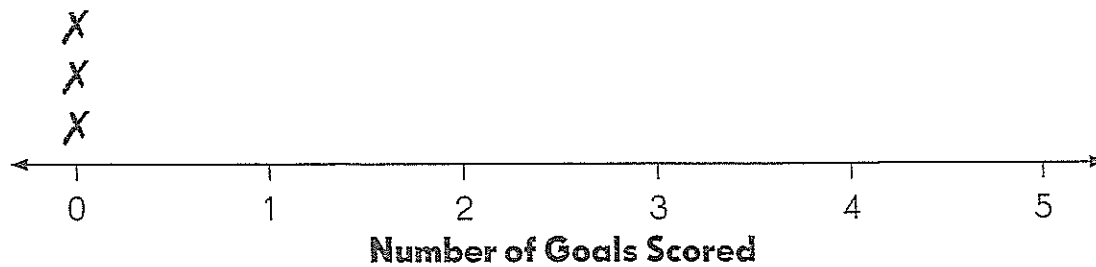
Date: \_\_\_\_\_

- 44.** The number of goals scored by a soccer team in 20 games are shown below.

2	1	3	3	0
0	4	0	1	3
3	3	2	5	1
2	5	4	2	1

Use the data to complete the line plot.  
The first column has been done for you.

Each **X** stands for 1 game.



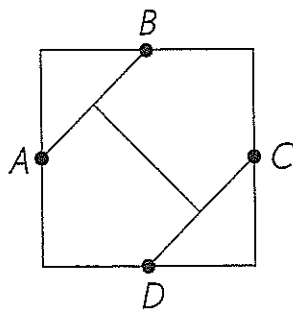
Name: \_\_\_\_\_

Date: \_\_\_\_\_

- 45.** The length of a rectangular field is 50 yards and its width is 24 yards.  
Kate runs around the field 3 times.  
How far does Kate run?

Kate runs \_\_\_\_\_ yards.

3. The diagram shows a four-piece square puzzle.



The steps used to make this puzzle:

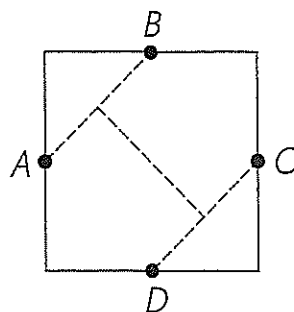
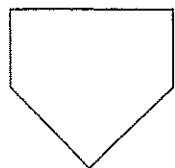
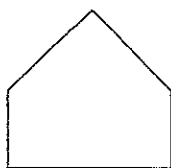
- Step 1 Cut out a square that has a side length of 8 centimeters from a piece of cardboard.
- Step 2 Find the point at the middle of each side of the square. Label them *A*, *B*, *C*, and *D*. Draw line segments *AB* and *CD*.
- Step 3 Cut along the line segments you drew to get the triangles.
- Step 4 Fold the remaining piece in half and cut along the folded line.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

You should have the following four pieces.

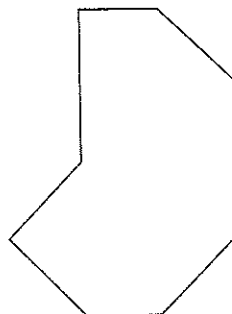
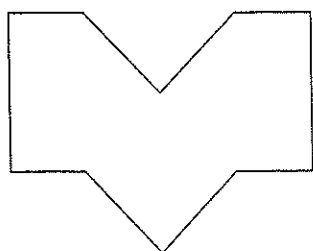
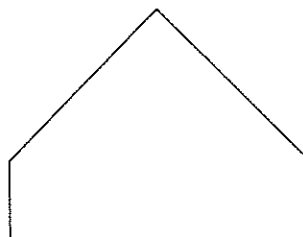
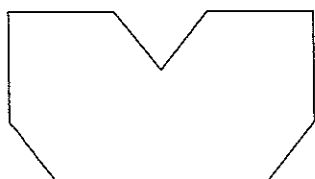
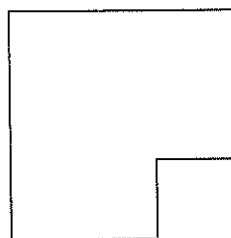
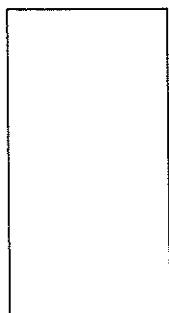
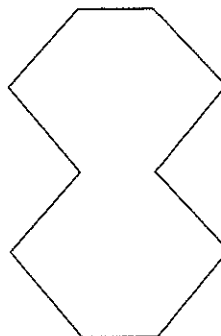
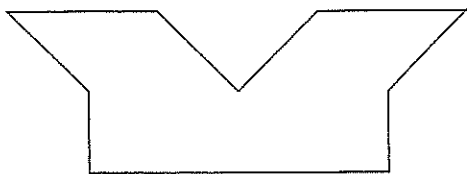
Show how to put the four pieces back together to make the square.



Name: \_\_\_\_\_

Date: \_\_\_\_\_

You can also use the four pieces to make other shapes.  
Try to make each of the shapes shown using the pieces you made.



What can you say about the areas of the shapes?