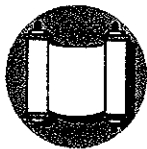
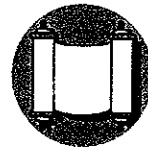


Summer Math Packet

Children Entering Grade 3



Hebrew Academy of Long Beach



June 2011

Dear Parents,

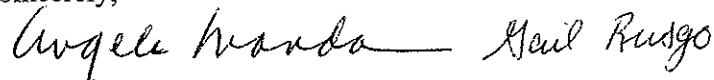
In order to succeed at mastering a skill, a person must practice. For example, both musicians and athletes practice on a regular basis. The same is true for a student. Although students need and deserve some “down time,” a great deal of information can be forgotten during the summer.

By fostering a positive approach to the completion of this math packet, you will help your child learn and retain important math skills and concepts. Your cooperation in assuring that the summer work is completed will contribute to your child’s future success in school.

This year’s summer math program consists of a packet of materials. This packet was created to align with the math curriculum taught during the school year. The packet provides additional practice in math during the summer. There are between 15 and 20 key topics that will be addressed in the packet. The problems are set up to review, maintain and deepen the skills and concepts learned this year. Each student is **required** to complete the green pages in the packet. These pages are meant to assess each student’s ability to apply the concepts that have been learned. When a child has difficulty with a concept while working on a green page, he/she can refer to the blue pages that correspond to the topic in question. The blue pages can also serve as additional review if you feel that your child would benefit from it. They are **not required**. The gold pages will serve as enrichment for the students who seek a challenge throughout the summer. Finally, the pink pages are basic-fact sheets. Many of our students have difficulty remembering number facts, especially in multiplication. As a result, other topics that relate to multiplication become problematic for them. You may want to use these sheets as mental math reviews or set a timer and have your child work to correctly solve as many problems as he/she can within 3 minutes. We would also like to recommend **Timez Attack**, a highly motivational computer game for multiplication and division facts. The free downloadable version of this game can be found at www.bigbrainz.com.

Thank you for your support. We are looking forward to an exciting and enriching year with your child. Enjoy the summer!

Sincerely,



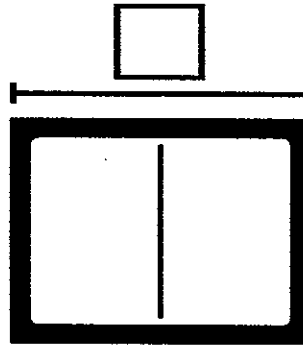
Angela Monda and Gail Rusgo
Directors of General Studies

REQUIRED MATH WORK
GREEN PAGES

Name _____

Draw a picture. Write the number sentence.

1. 15 cars are parked.
7 cars drive away.
How many cars are left?



_____ cars

_____ - _____ = _____

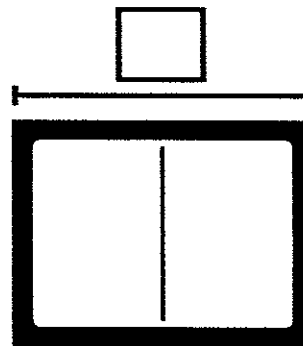
2. Ray has 6 dimes.
Clinton has 8 dimes.
How many more dimes does
Clinton have than Ray?

_____ dimes

_____ - _____ = _____

3. Meg picks 7 apples.
Troy picks 8 apples.

Write three number
sentences about
the apples.



_____ + _____ = _____

or

_____ + _____ = _____

_____ - _____ = _____

_____ - _____ = _____

Name _____

4. Use counters and your workmat.

Circle **add** or **subtract**.

Then write the number sentence.

The dog has 4 legs.

add

subtract

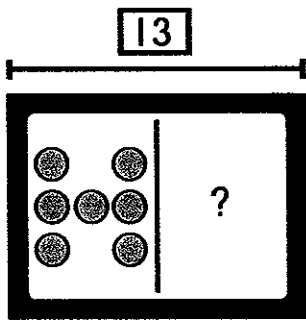
The bird has 2 legs.

How many legs do they have in all?

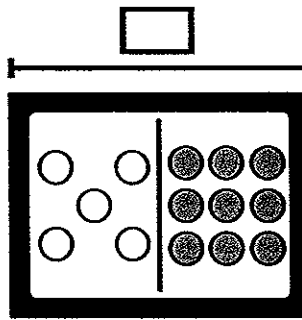


Write a number sentence to match the model.

5.



6.



7. Draw a picture to show the story.

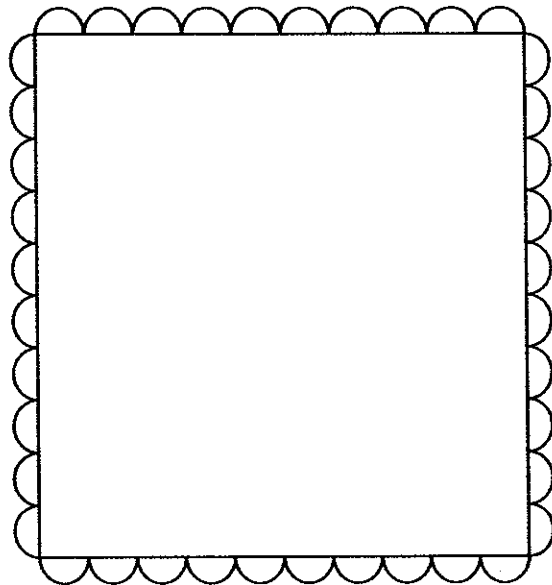
Write a subtraction sentence.

16 butterflies are in a tree.

7 butterflies fly away.

How many butterflies are still in the tree?

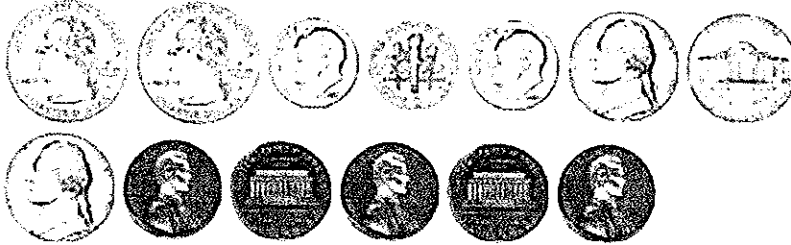
_____ - _____ = _____



Name _____

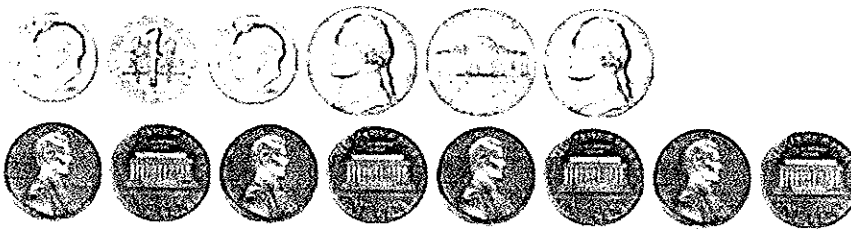
Count on to find the total amount.
Circle sets of coins that equal \$1.00.

1.



| |
|-----------------|
| Total Amount |
| |

2.



| |
|-----------------|
| Total Amount |
| |

3. What is the total amount?



4. Jonah needs 35¢.
Find all the ways he
can make 35¢.
Circle the way that
uses the fewest
number of coins.

| Quarter | Dime | Nickel | Total Amount |
|---------|------|--------|--------------|
| / | | | 35¢ |
| / | | | 35¢ |
| | | | 35¢ |
| | | | 35¢ |
| | | | 35¢ |

Name _____

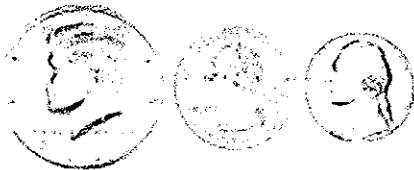
5. Julio has 3 coins that total 65¢.
He has a half dollar and a dime.
Draw the third coin he has.

6. Rosalie has these coins:



Draw the coins she needs to make a dollar.

7. Steven has these coins:



He needs 82¢ to buy a toy train. Draw the coins he needs to buy the train.

8. **Writing in Math** Octavia has 4 coins in her pocket.
The coins total 26¢.
Draw the coins Octavia has.

Name _____

Add.

1.

| Tens | Ones |
|----------------------|------|
| <input type="text"/> | |
| 4 | 8 |
| + | 2 |
| | 5 |
| <hr/> | |
| | |

2.

| Tens | Ones |
|----------------------|------|
| <input type="text"/> | |
| 7 | 7 |
| + | |
| | 8 |
| <hr/> | |
| | |

3.

| Tens | Ones |
|----------------------|------|
| <input type="text"/> | |
| 5 | 6 |
| + | 1 |
| | 6 |
| <hr/> | |
| | |

4.
$$\begin{array}{r} 49 \\ + 7 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 36 \\ + 48 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 23 \\ 42 \\ + 14 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 59 \\ 10 \\ + 25 \\ \hline \end{array}$$

8. $63 + 34 = \underline{\quad}$

9. Olivia did 24 sit-ups.
Then she did 7 more
sit-ups. How many
sit-ups did she do in all?

 sit-ups

10. Corey eats 4 berries.
Then he eats 18 more berries.
How many berries did he
eat in all?

 berries

11. A big aquarium has many fish.
29 fish are blue.
51 fish are silver.
17 fish are green.
How many fish in all live in the aquarium?

 + + = fish

Name _____

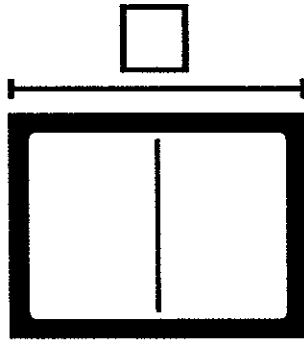
Problem Solving: Draw a Picture and Write a Number Sentence

Write a number sentence to solve each problem.

Use the part-part-whole mat if needed.

1. Jordan had 19¢. Then he found 17¢ more. How much money does he have now?

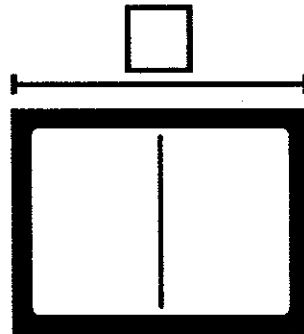
$$\underline{19} + \underline{17} = \underline{36} \text{ ¢}$$



| Tens | Ones |
|------|------|
| □ | |
| | |
| + | |
| | |

2. Cara has 14 toys. Tori has 18 toys. How many toys do the girls have in all?

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \text{ toys}$$



| Tens | Ones |
|------|------|
| □ | |
| | |
| + | |
| | |

3. Curt made paper cranes. He made 45 blue cranes. He made 17 green cranes.

Which number sentence shows how many paper cranes he made in all?

- (A) $45 - 17 = 28$
- (B) $17 + 17 = 34$
- (C) $45 + 17 = 62$
- (D) $45 + 45 = 90$

4. Algebra Which number is missing?

- (A) 4
- (B) 3
- (C) 2
- (D) 1

| Tens | Ones |
|------|------|
| 1 | |
| 2 | 8 |
| 1 | 4 |
| + | |
| ? | 2 |

Name _____

Subtract. Regroup if you need to.

| Show. | Subtract. | Do you need to regroup? | Find the difference. |
|-------|-----------|-------------------------|------------------------------|
| 1. 62 | 9 | Yes No | $62 - 9 = \underline{\quad}$ |
| 2. 78 | 6 | Yes No | $78 - 6 = \underline{\quad}$ |

3.

| Tens | Ones |
|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> |
| 3 | 6 |
| - | 8 |
| <hr/> | <hr/> |
| <input type="text"/> | <input type="text"/> |

4.

| Tens | Ones |
|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> |
| 7 | 2 |
| - | 3 |
| <hr/> | <hr/> |
| <input type="text"/> | <input type="text"/> |

5.

| Tens | Ones |
|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> |
| 5 | 1 |
| - | 5 |
| <hr/> | <hr/> |
| <input type="text"/> | <input type="text"/> |

6.

| Tens | Ones |
|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> |
| 7 | 0 |
| - | 4 |
| <hr/> | <hr/> |
| <input type="text"/> | <input type="text"/> |

Subtract. Check your answer by adding.

Write the missing part.

7.

$$\begin{array}{r} 34 \\ -18 \\ \hline \end{array}$$

8.

$$\begin{array}{r} 85 \\ -27 \\ \hline \end{array}$$

9. Solve.

A story has 72 pages.

Dan reads 38 pages on Monday

and 26 pages on Tuesday.

How many pages did he read in all?

How many pages are left?

_____ pages in all

_____ pages are left

Name _____

10. Solve.

The Johnson family will drive 95 miles to an amusement park. They drove 38 miles before lunch and 27 miles after lunch.

How many miles have they driven so far?

How many more miles do they need to drive?

_____ miles so far

_____ more miles

11. Tammy has 75¢.

She wants to buy a notebook for 89¢.

How much more money does she need? _____ ¢

12. A clown has 24 balloons.

7 of the balloons break.

How many balloons are left? _____ balloons

13. Writing in Math Write a subtraction story for

$35 - 17$. Then solve. Regroup if you need to.

Name _____

Practice

9-5

Subtracting Two-Digit Numbers

Write the subtraction problem. Find the difference.

1. $64 - 39$

| Tens | Ones |
|------|------|
| 5 | 4 |
| 6 | 4 |
| - 3 | 9 |
| 2 | 5 |

2. $65 - 16$

| Tens | Ones |
|------|------|
| | |
| | |
| - | |
| | |

3. $72 - 31$

| Tens | Ones |
|------|------|
| | |
| | |
| - | |
| | |

4. $56 - 29$

| Tens | Ones |
|------|------|
| | |
| | |
| - | |
| | |

5. $84 - 25$

| Tens | Ones |
|------|------|
| | |
| | |
| - | |
| | |

6. $34 - 16$

| Tens | Ones |
|------|------|
| | |
| | |
| - | |
| | |

7. $96 - 48$

| Tens | Ones |
|------|------|
| | |
| | |
| - | |
| | |

8. $43 - 27$

| Tens | Ones |
|------|------|
| | |
| | |
| - | |
| | |

9. Norma has 48 buttons.
Connie has 29 buttons.
How many more buttons
does Norma have than
Connie?

- (A) 29 buttons
- (B) 21 buttons
- (C) 19 buttons
- (D) 11 buttons

10. **Number Sense** Use each
number only once. Write
and solve the subtraction
problem with the greatest
difference.

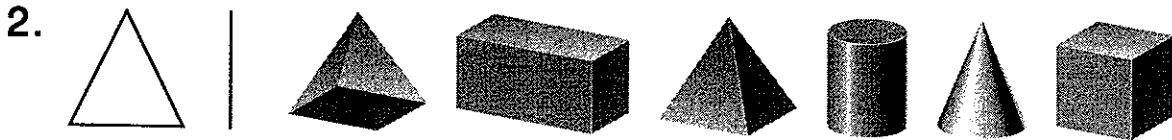
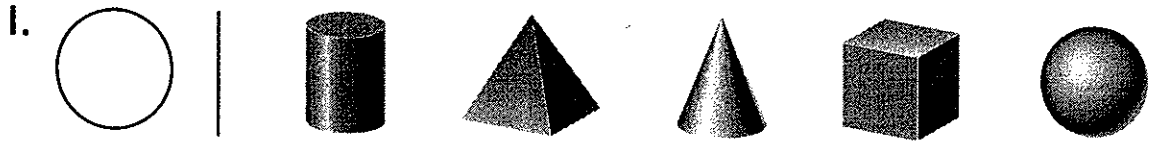
1 2 4 5

| Tens | Ones |
|------|------|
| | |
| | |
| - | |
| | |

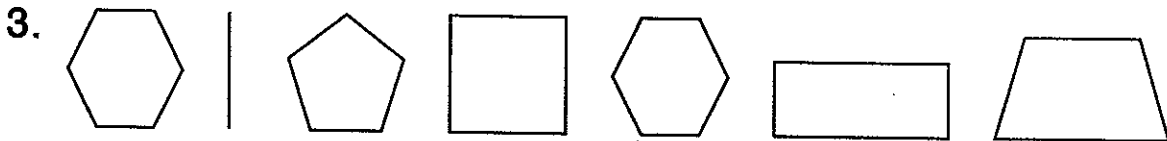
Practice 9-5

Name _____

Circle the solid figures that have flat surfaces you can trace to make the plane shape.

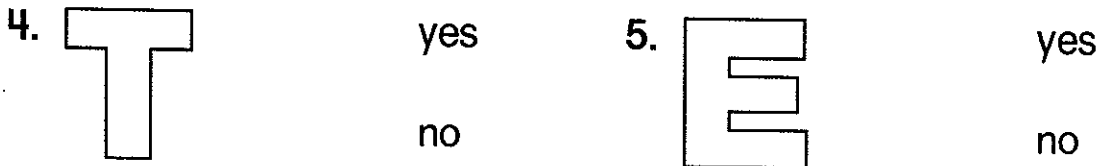


Circle the shape that is congruent to the first shape.



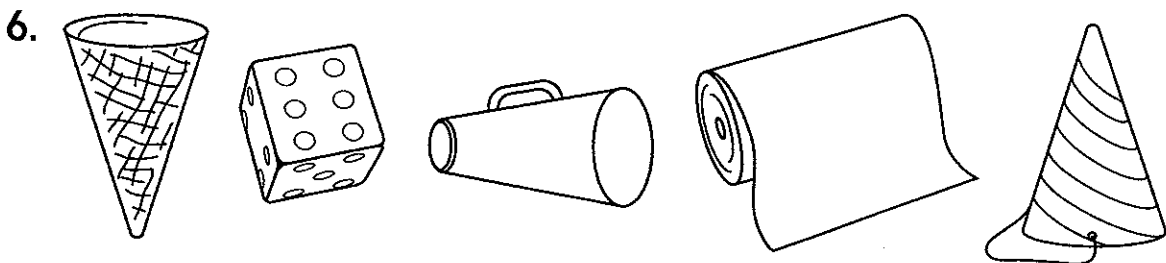
Does the shape have a line of symmetry?

Circle **yes** or **no**. If yes, draw a line of symmetry.



Write how many flat surfaces, vertices, and edges.

Then circle the objects that have that shape.



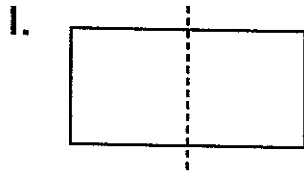
A cone has _____ flat surface, _____ vertex, and _____ edges.

Name _____

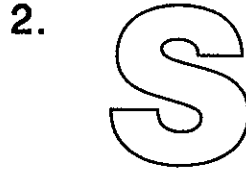
Symmetry

Does the shape have a line of symmetry?

Circle **yes** or **no**. If yes, draw a line of symmetry.

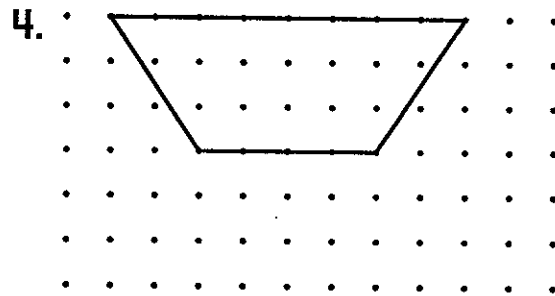
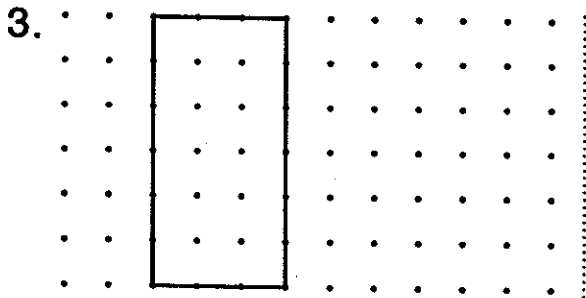


yes
 no

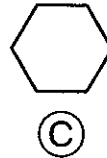
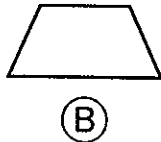
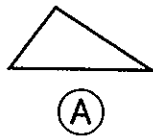


yes
 no

Draw the matching part to make a shape with symmetry.



5. Which shape does not have a line of symmetry?



6. **Spatial Thinking** Draw all of the possible lines of symmetry for each shape. Then write the total number for each shape.



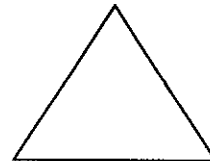
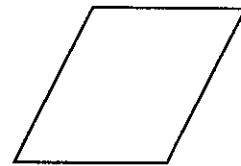
_____ line of symmetry



_____ lines of symmetry



_____ lines of symmetry

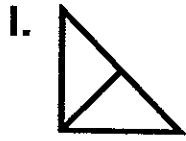


Name _____

Wholes and Equal Parts

Write the number of parts.

Circle **equal** or **unequal**.



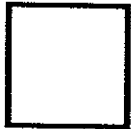
2 equal unequal parts



____ equal unequal parts

Draw a line or lines to show equal parts.

3. fourths



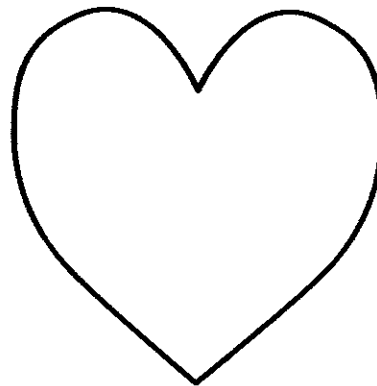
4. thirds



5. Sami has a paper heart.
Which shows how she
could cut it into halves?

- (A)
- (B)
- (C)
- (D)

6. Reasoning Circle **yes** or **no**.
Can the heart be divided into
3 equal parts?

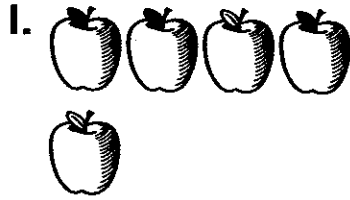


yes no

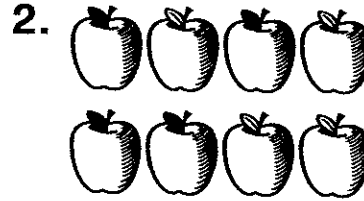
Name _____

Fractions of a Set

Color to show the fraction.



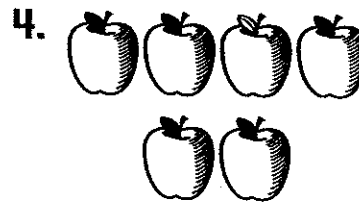
$\frac{4}{5}$ of the apples are red.



$\frac{3}{8}$ of the apples are red.



$\frac{2}{4}$ of the apples are red.



$\frac{2}{6}$ of the apples are red.

5. What fraction of the bananas are shaded?



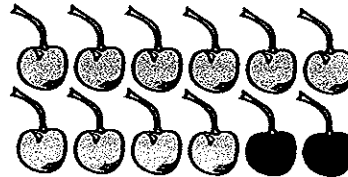
(A) $\frac{1}{2}$

(C) $\frac{3}{4}$

(B) $\frac{4}{7}$

(D) $\frac{7}{4}$

6. What fraction of the cherries are shaded?



(A) $\frac{12}{10}$

(C) $\frac{2}{12}$

(B) $\frac{10}{12}$

(D) $\frac{1}{10}$

7. **Number Sense** Draw a picture to solve.

Sue has 9 baseball cards.

She gives 4 cards to Kris.

How many cards does Sue have left? _____

What fraction of the 9 cards does Sue have? _____

Name _____

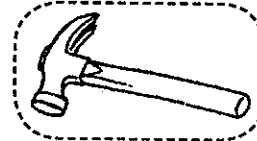
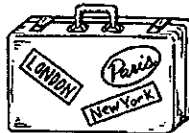
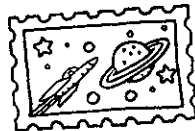
Practice

13-4

Inches, Feet, and Yards

Circle the object that is about each length.

1. a foot



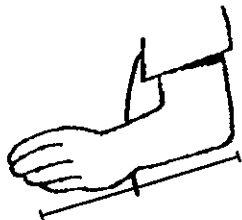
2. a yard



3. an inch



4. Measure from your fingertips to your elbow.



Estimate

about _____
paper clips

Measure

about _____
paper clips

Standard Units

about _____
inches

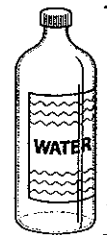
5. Sandy measures the length of a hockey stick. She says it is 4 units long. What unit did she use?



- (A) cubes
- (B) inches
- (C) feet
- (D) yards

6. Reasonableness

What is the height of the water bottle?



- (A) 9 cubes
- (B) 9 inches
- (C) 9 feet
- (D) 9 yards

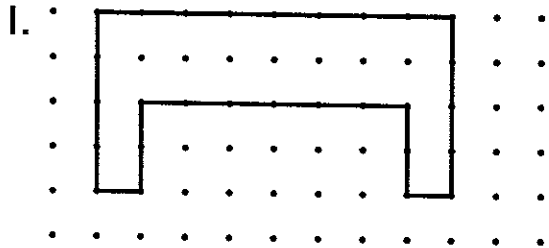
Name _____

Practice

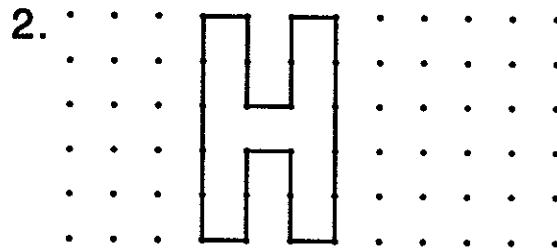
13-6

Exploring Perimeter

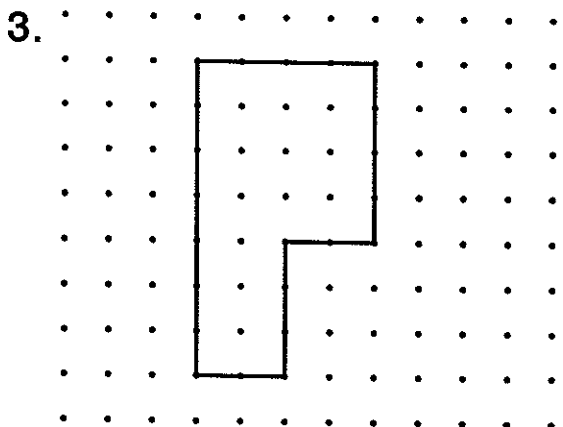
Find the perimeter of each shape.



perimeter: _____ units



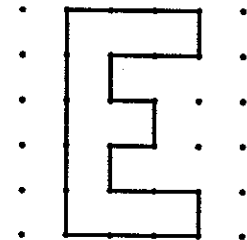
perimeter: _____ units



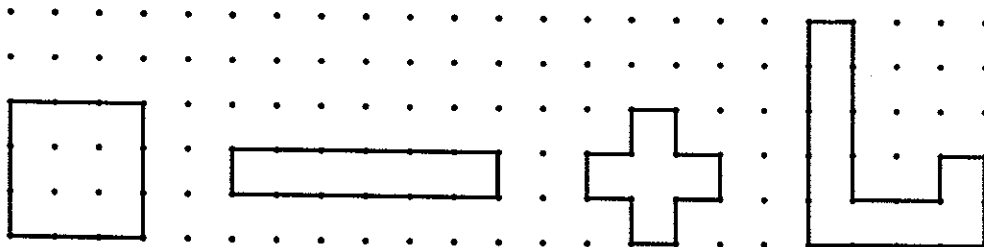
perimeter: _____ units

4. Find the perimeter of this shape.

- (A) 20 units
- (B) 21 units
- (C) 22 units
- (D) 23 units



5. Geometry What is the perimeter of the square?



12 units

(A)

16 units

(B)

18 units

(C)

20 units

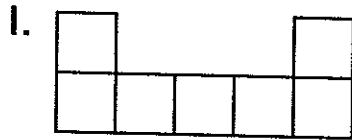
(D)

Practice 13-6

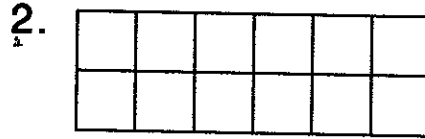
Name _____

Exploring Area

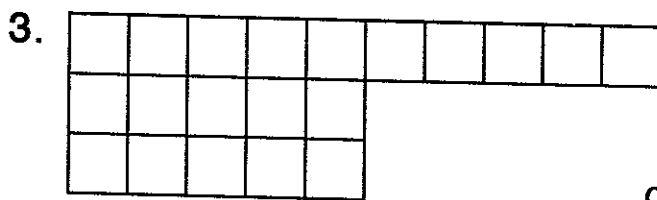
Find the area of each shape.



area: 7 square units

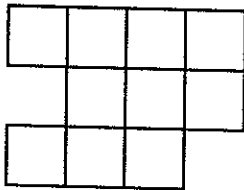


area: _____ square units



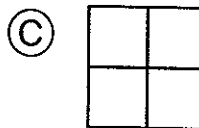
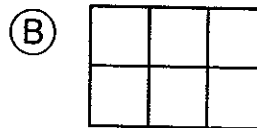
area: _____ square units

4. What is the area of the figure?



- (A) 9 square units
- (B) 10 square units
- (C) 11 square units
- (D) 12 square units

5. **Geometry** Which figure has an area of 6 square units?



Name _____

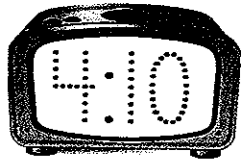
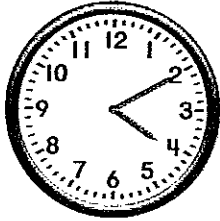
Practice

15-1

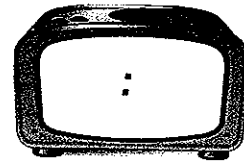
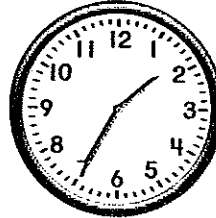
Telling Time to Five Minutes

Write the time.

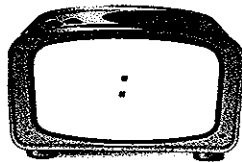
1.



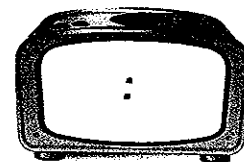
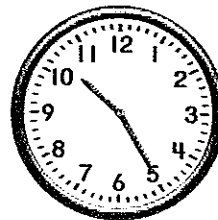
2.



3.



4.



5. The time is 6:05. What number would the minute hand be pointing to on a clock?

6
(A)

5
(B)

2
(C)

1
(D)

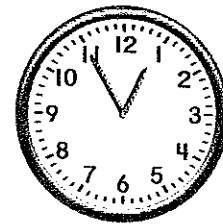
6. Look at the clock. What time does it show?

(A) 12:45

(C) 12:55

(B) 12:50

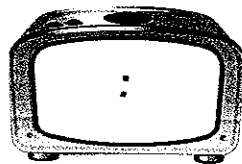
(D) 1:00



7. **Number Sense** Look at the time on the first clock.

What time will it be in five minutes?

Show that time on the second clock.

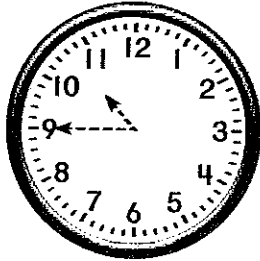


Name _____

Telling Time Before and After the Hour

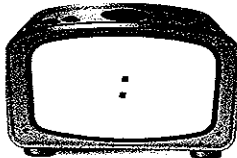
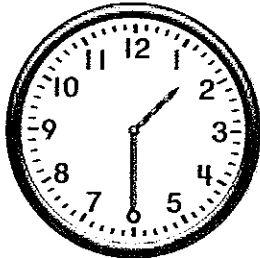
Write the time or draw the hands to show the time.
Then write the time before or after the hour.

1.



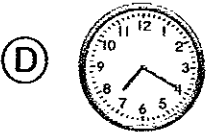
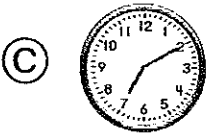
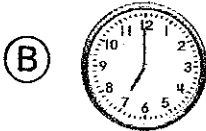
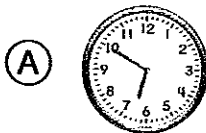
quarter to 11

2.



half past 1

3. Joyce gets up at ten minutes before 7. Which clock shows this time?



4. **Journal** Write two ways to say the time shown.



Name _____

Models for Adding with Three-Digit Numbers

Add. Regroup if needed.

1.

| Hundreds | Tens | Ones |
|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 6 | 3 | 4 |
| + | 2 | 8 |
| 8 | 5 | 2 |

2.

| Hundreds | Tens | Ones |
|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 5 | 9 | 3 |
| + | 1 | 9 |
| | | |

3.

| Hundreds | Tens | Ones |
|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 7 | 6 | 5 |
| + | 1 | 0 |
| | | |

4.

| Hundreds | Tens | Ones |
|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 3 | 5 | 6 |
| + | 4 | 4 |
| | | |

5.

| Hundreds | Tens | Ones |
|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 2 | 7 | 6 |
| + | 5 | 3 |
| | | |

6.

| Hundreds | Tens | Ones |
|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 4 | 4 | 1 |
| + | 1 | 9 |
| | | |

7. A fire truck traveled 267 miles in July to put out fires.
It traveled 398 miles in August to put out fires.
Which problem shows the total number of miles for both months?

(A)

$$\begin{array}{r} 267 \\ + 398 \\ \hline 665 \end{array}$$

(B)

$$\begin{array}{r} 276 \\ + 398 \\ \hline 674 \end{array}$$

(C)

$$\begin{array}{r} 267 \\ + 398 \\ \hline 655 \end{array}$$

(D)

$$\begin{array}{r} 267 \\ + 398 \\ \hline 565 \end{array}$$

8. **Reasonableness** George thinks that 515 plus 381 is 896.
Markita says that George forgot to regroup.
Do you have to regroup to add 515 and 381? Explain.

Name _____

Models for Subtracting with Three-Digit Numbers

Use models and your workmat. Subtract. Regroup if needed.

1.

| Hundreds | Tens | Ones |
|--------------|--------------|------|
| 6 | 5 | |
| 7 | 5 | 5 |
| — 2 | 8 | 2 |
| 4 | 7 | 3 |

2.

| Hundreds | Tens | Ones |
|----------|------|------|
| | | |
| 4 | 8 | 5 |
| — 1 | 3 | 9 |
| | | |

3.

| Hundreds | Tens | Ones |
|----------|------|------|
| | | |
| 5 | 7 | 8 |
| — 2 | 9 | 7 |
| | | |

4.

| Hundreds | Tens | Ones |
|----------|------|------|
| | | |
| 6 | 5 | 7 |
| — 1 | 2 | 8 |
| | | |

5.

| Hundreds | Tens | Ones |
|----------|------|------|
| | | |
| 7 | 3 | 2 |
| — 4 | 5 | 8 |
| | | |

6.

| Hundreds | Tens | Ones |
|----------|------|------|
| | | |
| 9 | 2 | 7 |
| — 3 | 0 | 4 |
| | | |

7. One building is 332 feet tall. Another building is 208 feet tall. How much higher is the first building?

540 feet

(A)

136 feet

(B)

134 feet

(C)

124 feet

(D)

8. **Spatial Thinking** Use the model to help you subtract.

A farm has 319 animals.

136 of the animals are pigs.

How many animals are not pigs?

_____ animals are not pigs.

| Hundreds | Tens | Ones |
|----------|------|------|
| | | |
| | | |
| — | | |
| | | |