Students Entering

Third Grade

Summer Math Packet

Name_____

Dear Parents,

The attached packet provides a range of activities that review and expand on the math concepts your child has learned in school this past year. It is designed to be worked on for 15 to 30 minutes a day throughout the summer, rather than completed in just a few days at the beginning or end of summer. The goal is to keep skills sharp to be ready to move forward into the next school year.

Students **will** be asked to hand in their completed work the first week of school.

Have a great summer!

Practice Telling Time

Write the time.

1.

:__ **10:15**   :__   :__
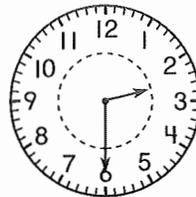
2.

:__   :__   :__
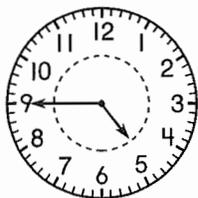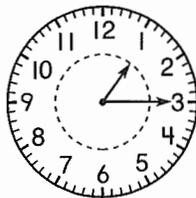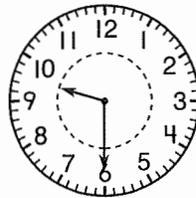
3.

:__   :__   :__
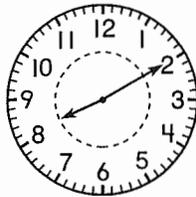
4.

:__   :__   :__
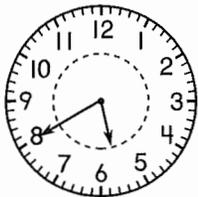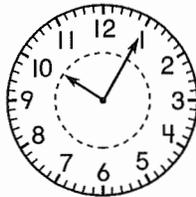
▶ **Mixed Review**

Write > or <.

5. 36 ◯ 63   22 ◯ 12   66 ◯ 56

Daily Events

Write the correct time.
Circle A.M. or P.M.

1. eat breakfast
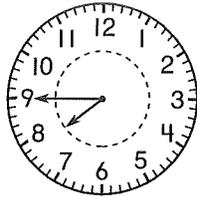
7:45 (A.M.)   P.M.

2. go to school

_____   A.M.   P.M.

3. read before bed
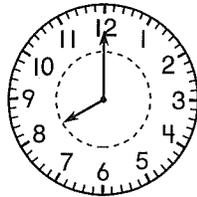
_____   A.M.   P.M.

4. eat lunch at school
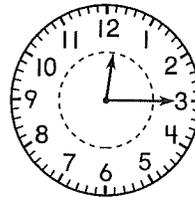
_____   A.M.   P.M.

5. have recess
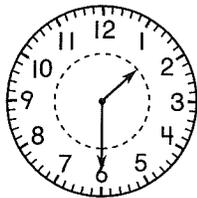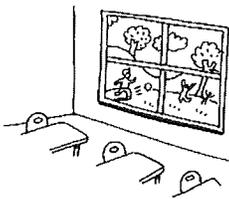
_____   A.M.   P.M.

6. go to practice
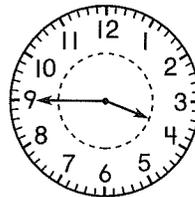
_____   A.M.   P.M.

▶ **Mixed Review**

Complete the pattern.

7. 20, 25, 30, ____   6, 8, 10, ____   15, 17, 19, ____

8. 12, 15, 18, ____   80, 90, 100, ____   55, 60, 65, ____

Adding Time

Name: _____   Date: _____

(1)
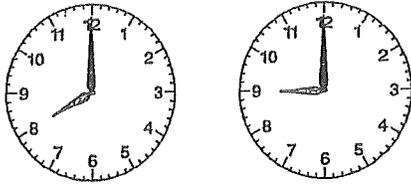
The second clock is ___ hour(s) and
____ minute(s) ahead of the first clock.

(2)
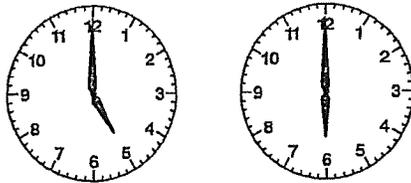
The second clock is ___ hour(s) and
____ minute(s) ahead of the first clock.

(3)
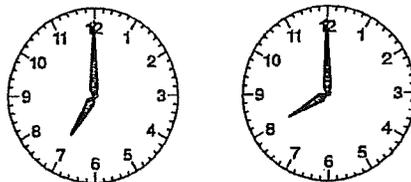
The second clock is ___ hour(s) and
____ minute(s) ahead of the first clock.

(4)
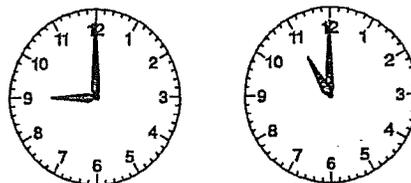
The second clock is ___ hour(s) and
____ minute(s) ahead of the first clock.

(5)
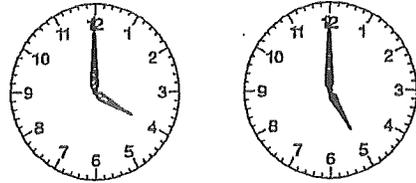
The second clock is ___ hour(s) and
____ minute(s) ahead of the first clock.

(6)
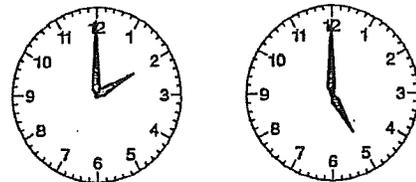
The second clock is ___ hour(s) and
____ minute(s) ahead of the first clock.

(7)
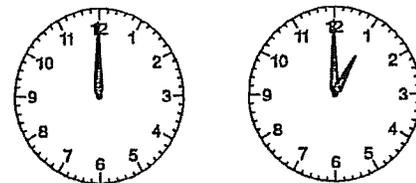
The second clock is ___ hour(s) and
____ minute(s) ahead of the first clock.

(8)
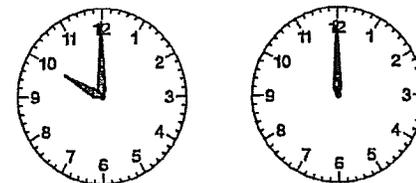
The second clock is ___ hour(s) and
____ minute(s) ahead of the first clock.

Pennies, Nickels, and Dimes

▶ Vocabulary

Write the value.

1.
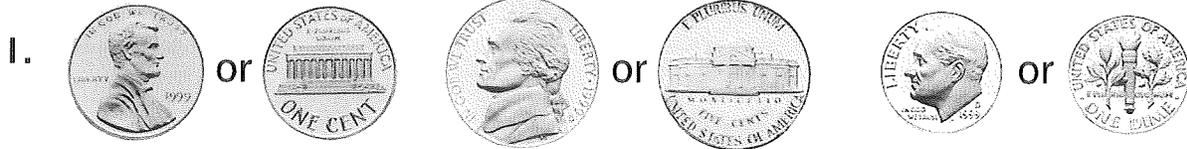
I **penny** = ____¢   I **nickel** = ____¢   I **dime** = ____¢

Count on to find the total amount.

2.

____¢, ____¢, ____¢, ____¢, ____¢, ____¢   41 ¢
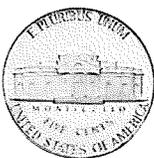
3.

____¢, ____¢, ____¢, ____¢, ____¢, ____¢   ☐ ¢
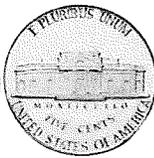
4.

____¢, ____¢, ____¢, ____¢, ____¢, ____¢   ☐ ¢

▶ Mixed Review

Complete.

5. 12, ____, 18, 21   25, 30, ____, 40

6. ____, 50, 60, 70   32, ____, 36, 38

Quarters and Half-Dollars

Count on to find the total amount.

1.

_25_ ¢, ____ ¢, ____ ¢, ____ ¢, ____ ¢, ____ ¢ ☐ ¢

2.

____ ¢, ____ ¢, ____ ¢, ____ ¢, ____ ¢, ____ ¢ ☐ ¢
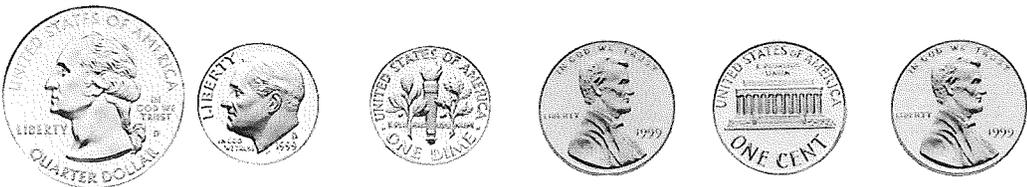
3.

____ ¢, ____ ¢, ____ ¢ ☐ ¢
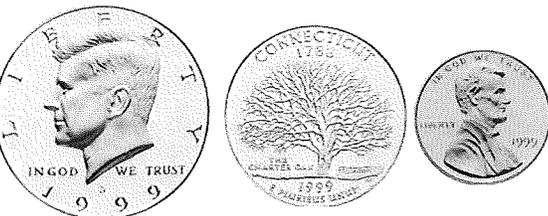
4.

____ ¢, ____ ¢, ____ ¢, ____ ¢, ____ ¢ ☐ ¢
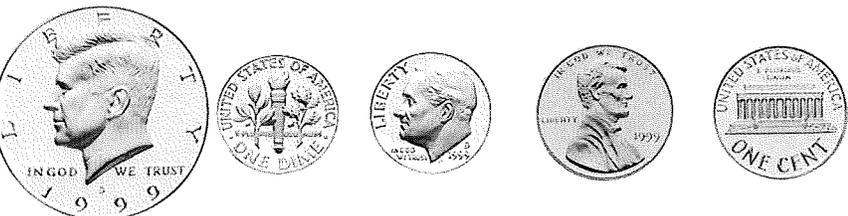
▶ **Mixed Review**

Solve.

5. $4 + 8 =$ ___ $\qquad$ $7 + 6 =$ ___ $\qquad$ $8 + 7 =$ ___

6. $15 - 7 =$ ___ $\qquad$ $12 - 7 =$ ___ $\qquad$ $14 - 6 =$ ___

Identify Plane Shapes
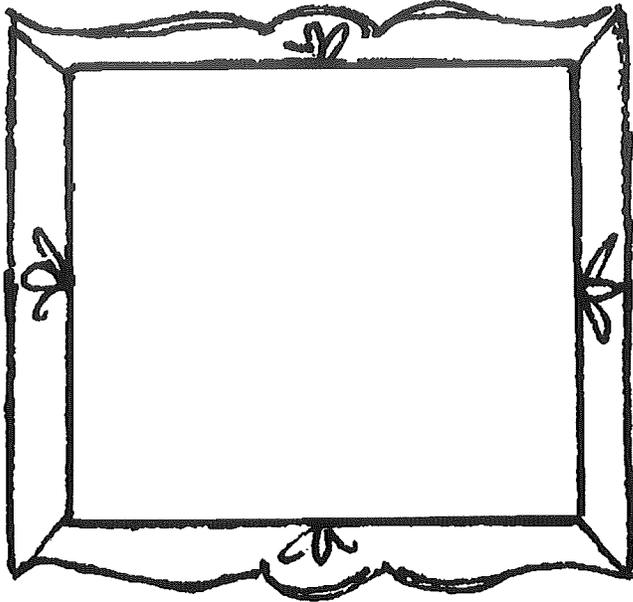
1. Draw 5 rectangles.
Color them orange

2. Draw 3 circles.
Color them blue.

3. Draw 4 ovals.
Color them yellow.

4. Draw 1 triangle.
Color it red.

5. Draw 2 squares.
Color them green.

6. Draw 3 circles.
Color them yellow.

7. Draw 5 squares.
Color them red.

8. Draw 4 rectangles.
Color them green.

9. Draw 1 oval.
Color it blue.

10. Draw 2 triangles.
Color them orange.
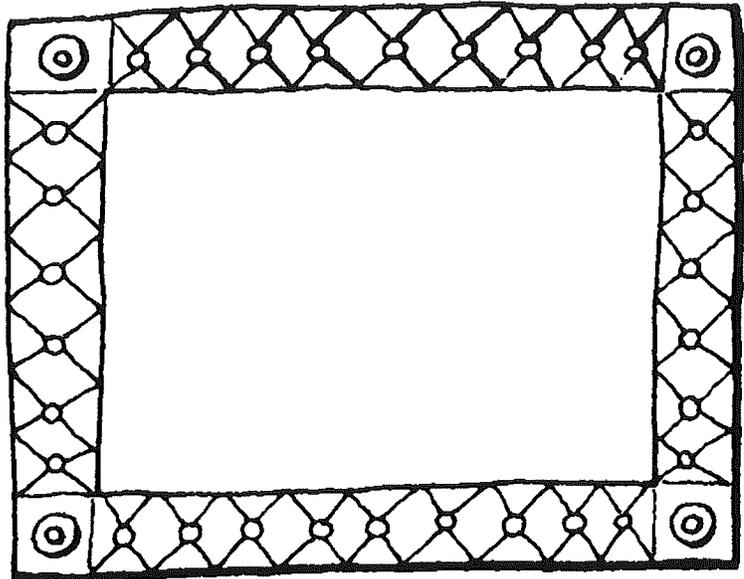
▶ **Mixed Review**

Solve.

11. $43 - 5 =$ _____ $33 - 5 =$ _____ $18 - 5 =$ _____

12. $27 - 5 =$ _____ $41 - 5 =$ _____ $94 - 5 =$ _____

13. $45 - 5 =$ _____ $64 - 5 =$ _____ $70 - 5 =$ _____

Identify Solid Figures

rectangular prisms   sphere   cones   cylinders   cubes   pyramids

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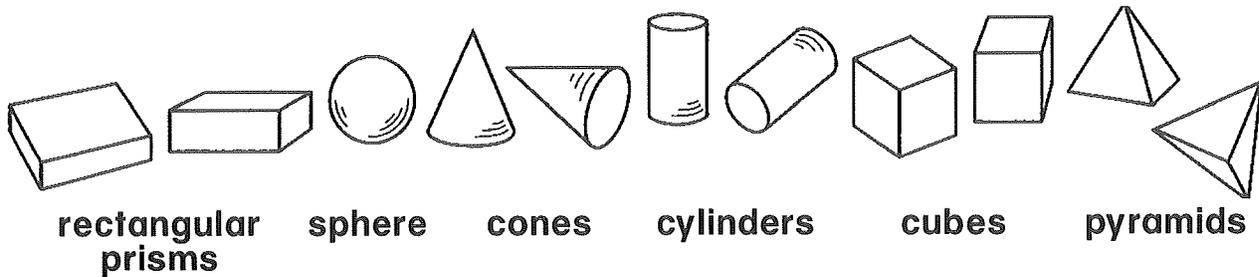
Color the figures that are the same shape.

1.

2.
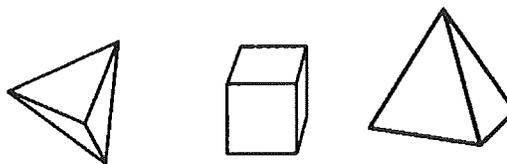
3.
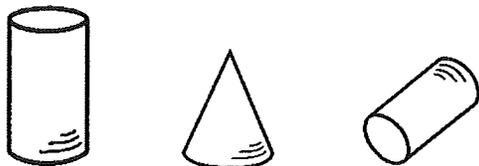
4.
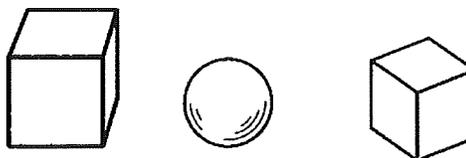
5.
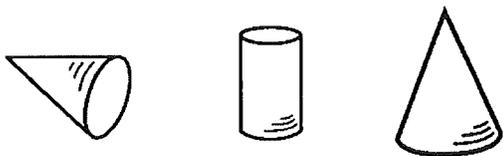
6.
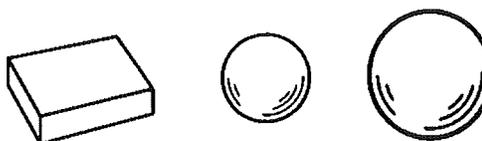
▶ **Mixed Review**

Write >, <, or = in the circle.

7. 44 ◯ 54   82 ◯ 28   21 ◯ 21

8. 77 ◯ 77   29 ◯ 92   41 ◯ 14

9. 10 ◯ 7   33 ◯ 31   19 ◯ 19

NAME _____ DATE _____

Halves

1 Circle the correct answer.

a If you cut this square in half, what two shapes will you get?
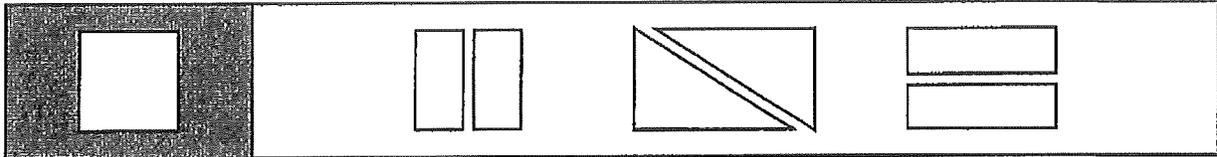
b If you cut this rectangle in half, what two shapes will you get?
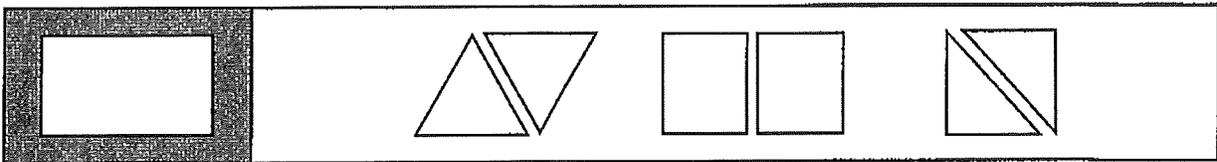
c If you cut this hexagon in half, what two shapes will you get?

2 Subtract:

|						
10	16	20	12	14	18	6
− 5	− 8	− 10	− 6	− 7	− 9	− 3

40	60	24	30	80	100	22
− 20	− 30	− 12	− 15	− 40	− 50	− 11

400	600	200	120	180	160	140
− 200	− 300	− 100	− 60	− 90	− 80	− 70

Missing Numbers

Write the missing number.
Use counters if you need to.

1. $8 + \underline{6} = 14$ $14 - 8 = \underline{\quad}$

2. $\underline{\quad} + 5 = 12$ $12 - 5 = \underline{\quad}$

3. $\underline{\quad} + 6 = 13$ $13 - 6 = \underline{\quad}$

4. $7 + \underline{\quad} = 11$ $11 - 7 = \underline{\quad}$

5. $\underline{\quad} + 6 = 10$ $10 - 6 = \underline{\quad}$

6. $11 - \underline{\quad} = 8$ $11 - 8 = \underline{\quad}$

7. $\underline{\quad} + 7 = 16$ $16 - 7 = \underline{\quad}$

▶ **Mixed Review**

Solve.

8. $6 + 7 = \underline{\quad}$ 9. $8 + 5 = \underline{\quad}$ 10. $9 + 4 = \underline{\quad}$

11. $13 - 5 = \underline{\quad}$ 12. $13 - 7 = \underline{\quad}$ 13. $13 - 9 = \underline{\quad}$

14. $9 + 3 = \underline{\quad}$ 15. $8 + 3 = \underline{\quad}$ 16. $9 + 8 = \underline{\quad}$

NAME _____   DATE _____

Solving Equations

1 Fill in the missing numbers.

a $15 = \underline{\hspace{1cm}} + 7$

b $5 + \underline{\hspace{1cm}} = 13$

c $14 - \underline{\hspace{1cm}} = 8$

d $16 - \underline{\hspace{1cm}} = 7$

e $9 + 6 = \underline{\hspace{1cm}} + 8$

f $12 - 5 = 4 + \underline{\hspace{1cm}}$

g $13 - 7 = 3 + \underline{\hspace{1cm}}$

2 Fill in the missing numbers.

$40 + 50 = \underline{\hspace{1cm}}$ $30 + \underline{\hspace{1cm}} = 60$ $\underline{\hspace{1cm}} + 70 = 90$

$25 + 35 = \underline{\hspace{1cm}}$ $25 + \underline{\hspace{1cm}} = 50$ $\underline{\hspace{1cm}} + 40 = 85$

$80 - 40 = \underline{\hspace{1cm}}$ $70 - \underline{\hspace{1cm}} = 20$ $\underline{\hspace{1cm}} - 30 = 30$

$95 - 40 = \underline{\hspace{1cm}}$ $55 - \underline{\hspace{1cm}} = 35$ $\underline{\hspace{1cm}} - 25 = 25$

CHALLENGE

3 Fill in the missing numbers.

$250 = \underline{\hspace{1cm}} + 6$ $90 + 70 = \underline{\hspace{1cm}} + 17$ $140 - 60 = 30 + \underline{\hspace{1cm}}$

NAME _____   DATE _____

Pet Shop Equations

1 Draw a line to match each problem with its equation. Then find the answers.

a The pet shop owner had 14 hamsters. She sold 5 of them on Monday and 3 of them on Tuesday. How many hamsters does she have left?
b There were 12 puppies in the pen. The pet shop owner sold some of them. Now there are 7 puppies in the pen. How many puppies did she sell?
c The pet shop owner got 9 rabbits yesterday. A family came in and bought 2 of them. Then the shop owner got 8 more rabbits. How many rabbits does she have now?
d There were 16 fish in the big tank. The shop owner moved some of them. Now there are only 9 fish in the big tank. How many did the shop owner move?
e The shop owner had 6 kittens. Then she got some more kittens. Now she has 13 kittens. How many kittens did she get?

$9 - 2 + 8 = $ _____

$14 - 5 - 3 = $ _____

$6 + $ _____ $ = 13$

$12 - $ _____ $ = 7$

$16 - $ _____ $ = 9$

CHALLENGE

2 Solve these equations.

$2 + 5 - 4 + 8 = $ _____

$8 + 12 + 34 = $ _____

$20 + 30 - $ _____ $ = 30 - 5$

$90 + 170 + 64 = $ _____

$123 + 48 - $ _____ $ = 123 - 5$

$30 - 20 + $ _____ $ = 25$

_____ $ + 5 = 21$

$250 + 48 + 2 = $ _____

$14 + 227 - $ _____ $ = 227 - 9$

$350 + 118 + 6 = $ _____

NAME _____   DATE _____

More Facts Than You Need

Sometimes story problems give you more facts than you need to solve the problem. In each problem below, cross out the fact you don't need. Then solve the problem. Show your work.

1 Akiko has 27 marbles. Sara has 53 marbles. Sam has 24 marbles. How many marbles do Sara and Sam have in all?

Sara and Sam have _____ marbles in all.

2 Jenny has 12 toy people. She is building a house for them. She used 12 blocks for the front gate, and 48 blocks for the rest of the house. How many blocks did Jenny use in all?

Jenny used _____ blocks in all.
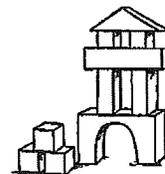
3 Juan had 56 crayons. He gave 23 of his crayons to his friend. Juan also gave his friend 15 marking pens. How many crayons does Juan have left?

Juan has _____ crayons left.

CHALLENGE

4 The Toy Factory made 90 robots on Tuesday. 23 people work at the factory. They sold 54 of the robots on Wednesday. How many robots did they have left?

The Toy Factory had _____ robots left.

NAME _____   DATE _____

Sam's Hot Dog Stand

1 Sam has a hot dog stand at the mall. The chart below shows how many hot dogs he sold last week. Use the chart to help answer the questions below.

a Which day did Sam sell the most hot dogs?

b Which day did Sam sell the fewest hot dogs?

c How many hot dogs did Sam sell on Tuesday and Wednesday put together? Show your work.

Hot Dogs Sold	
Day	Number of Hot Dogs
Monday	119
Tuesday	125
Wednesday	163
Thursday	108
Friday	234
Saturday	345
Sunday	325

2 Use one of the signs below to compare the number of hot dogs Sam sold on different days.

< less than   = the same as   > greater than

ex 125 __<__ 345	**a** 325 _____ 108	**b** 108 _____ 119
c 234 _____ 164	**d** 163 _____ 345	**e** 325 _____ 234

3 Put the numbers from the chart (in problem 1) in order from least to greatest on the lines below.

_____, _____, _____, _____, _____, _____, _____

least   greatest

CHALLENGE

4 How many hot dogs did Sam sell altogether? Show your work.

Other Fractions

Write the fraction for the shaded part.

1.

$$\frac{1}{3}$$

_____

2.

_____

3.

_____

4.

_____

5.

_____

6.

_____

7.

_____

8.

_____

9.

_____
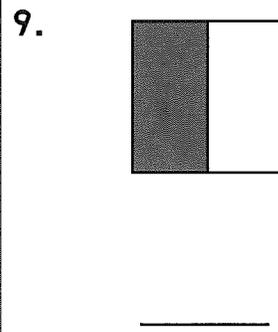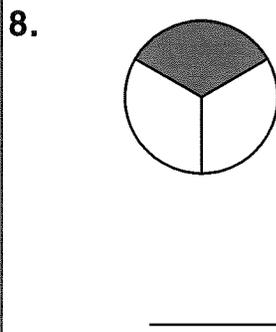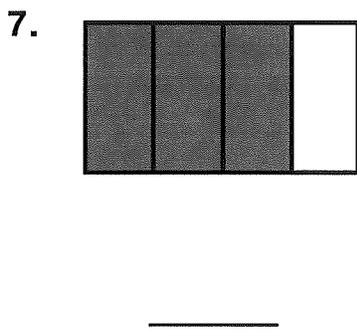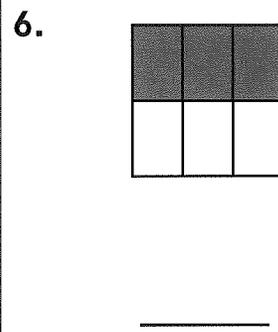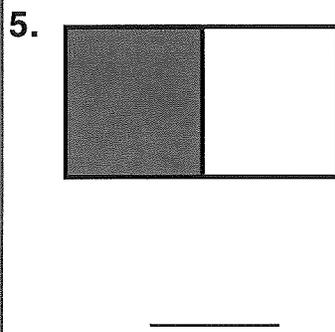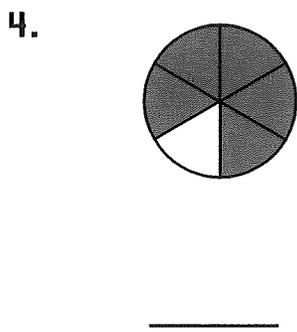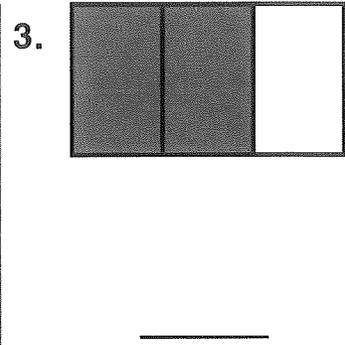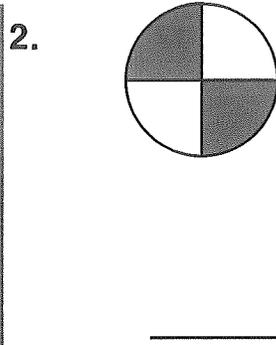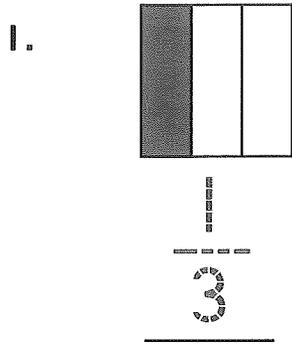
▶ **Mixed Review**

Solve.

10. $19 - \underline{\quad} = 8$ $30 - \underline{\quad} = 25$ $17 - \underline{\quad} = 8$

11. $10 - \underline{\quad} = 7$ $12 - \underline{\quad} = 7$ $20 - \underline{\quad} = 10$

**12.** $18 - \underline{\quad} = 11$ $14 - \underline{\quad} = 6$ $11 - \underline{\quad} = 5$

© Harcourt

NAME _____ DATE _____

Fractions

1 What part of each rectangle is colored? Circle the correct fraction.

a	b
$\frac{1}{3}$ $\frac{2}{2}$ $\frac{1}{2}$ $\frac{3}{4}$	$\frac{1}{4}$ $\frac{2}{4}$ $\frac{1}{3}$ $\frac{3}{6}$
c	d
$\frac{2}{3}$ $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{3}$	$\frac{3}{4}$ $\frac{2}{4}$ $\frac{3}{3}$ $\frac{5}{4}$

2 Read each fraction and color in that part of the shape.

a	b
$\frac{2}{4}$	$\frac{3}{4}$
c	d
$\frac{1}{6}$	$\frac{3}{6}$
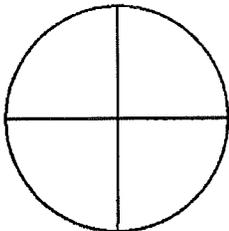
Place Value

Directions: Write the value of the underlined digit.

5<u>4</u>	50	4<u>7</u>	7	<u>8</u>3	80
3<u>5</u>	___	<u>8</u>9	___	3<u>3</u>	___
<u>7</u>4	___	<u>2</u>5	___	4<u>4</u>	___
5<u>1</u>	___	<u>3</u>7	___	<u>6</u>2	___
<u>5</u>5	___	4<u>2</u>	___	<u>1</u>8	___
<u>3</u>9	___	1<u>6</u>	___	3<u>8</u>	___
<u>4</u>0	___	8<u>9</u>	___	<u>9</u>9	___
7<u>0</u>	___	<u>2</u>8	___	4<u>8</u>	___

NAME _____ DATE _____

Digits & Number Riddles

1 Tell what digit is in each place.

a 289	_____ is in the tens place. _____ is in the ones place. _____ is in the hundreds place.	**b** 945	_____ is in the ones place. _____ is in the hundreds place. _____ is in the tens place.
c 316	_____ is in the tens place. _____ is in the hundreds place. _____ is in the ones place.	**d** 405	_____ is in the ones place. _____ is in the tens place. _____ is in the hundreds place.
e 5,687	_____ is in the tens place. _____ is in the ones place. _____ is in the thousands place. _____ is in the hundreds place.	**f** 4,301	_____ is in the ones place. _____ is in the hundreds place. _____ is in the tens place. _____ is in the thousands place.

CHALLENGE

2 Solve these number riddles.

a I have a 4 in the tens place. • I have a 1 in the hundreds place. • The number in my ones place is more than 6 and less than 9. • I am an odd number. What number am I?	**b** I have a 7 in the hundreds place. • I have a 0 in the tens place. • I have a 3 in the thousands place. • The number in my ones place is less than 3. • I am an even number. What number am I?

NAME _____   DATE _____

Place Value Review

1 Circle the place value of the underlined digit. Then write its value.

Number	Place Value	Value	Number	Place Value	Value
ex a 2<u>3</u>8	ones (tens) hundreds	*30*	**ex b** 10<u>9</u>	(ones) tens hundreds	*9*
a <u>7</u>43	ones tens hundreds		**b** 25<u>3</u>	ones tens hundreds	
c 1<u>5</u>0	ones tens hundreds		**d** <u>6</u>08	ones tens hundreds	

2 Write one of these signs on each line to make the sentence true.

$<$ less than $=$ the same as $>$ greater than

ex 456 __$<$__ 546	**a** 85 _____ 58	**b** 327 _____ 372	**c** 106 _____ 610
d 218 _____ 218	**e** 735 _____ 573	**f** 204 _____ 240	**g** 483 _____ 438

3 Fill in the missing digits to make each statement true. There is more than one right answer for each one.

ex 3 _2_ 7 $<$ 347	**a** 235 $>$ ___35	**b** 307 $<$ ___07	**c** 135 $<$ 13___
d 4___3 $>$ 463	**e** 1___9 $<$ 139	**f** 182 $>$ 1___2	**g** 514 $<$ 51___

Subtract Three-Digit Numbers

Subtract the ones.
Regroup as needed.

```
  0 18
6 1̸ 8̸
- 2 0 9
      9
```

Regroup 1 ten and 8 ones
to 0 tens and 18 ones.
18 − 9 = 9 **ones.**

Subtract the tens.
Regroup as needed.

```
  0 18
6 1̸ 8̸
- 2 0 9
    0 9
```

0 − 0 = 0 tens

Subtract the hundreds.

```
  0 18
6̸ 1̸ 8̸
- 2 0 9
  4 0 9
```

6 − 2 = 4 hundreds
The difference is 409.

Check

```
    1
  4 0 9
+ 2 0 9
  6 1 8
```

Add to check
your answer.

Subtract the numbers. Regroup as needed. Write the **difference.**

1.
```
  148        174        243        255
-  36      -  43      -  33      -  48
```

2.
```
  353        326        870        258
- 205      - 250      - 328      - 196
```

3.
```
  694        786        971        777
- 589      - 579      -  26      - 456
```

4.
```
  219        493        800        550
-  74      - 188      - 250      - 315
```

119 + 160	201 + 225	461 - 292	229 + 771	371 - 214	874 - 423
818 - 456	566 + 331	512 + 979	666 + 486	694 + 257	976 - 323
518 + 441	614 - 422	234 + 509	361 - 223	358 - 104	476 - 333
973 - 284	956 - 437	522 - 374	696 + 449	481 - 292	698 - 581
869 + 412	876 - 650	273 + 760	459 + 148	713 + 830	810 + 763

513 + 947	114 + 465	721 - 158	873 - 478	813 - 533
270 + 305	772 - 274	918 - 114	586 - 153	915 + 700
966 - 367	507 + 379	444 + 518	601 + 240	684 + 927
264 + 713	242 + 922	535 - 122	645 - 413	965 - 901

Practice

▣ Multiply. Record your score—the number correct—on each Practice page and again.

Four as a Factor

0	7	4	3
x 4	x 4	x 0	x 4

4	4	6	4
x 9	x 7	x 4	x 1

4	4	8	5
x 6	x 3	x 4	x 4

4	4	1	4
x 2	x 5	x 4	x 4

9	2	4	4
x 4	x 4	x 8	x 7

4 x 6 = ____   4 x 9 = ____

7 x 4 = ____   4 x 3 = ____

4 x 0 = ____   5 x 4 = ____

0 x 4 = ____   4 x 7 = ____

4 x 4 = ____   9 x 4 = ____

2 x 4 = ____   4 x 1 = ____

4 x 5 = ____   6 x 4 = ____

3 x 4 = ____   4 x 8 = ____

Score: _____

START

Name _____

Timed Test

⊞ Improve your speed on these facts of 6. Ask someone to time you.
Record your time and score on each Timed Test page and on page 18(

<div style="float: left">**Six as a Factor**</div>

6 x 9 = ____	3 x 6 = ____	6 x 2	0 x 6	6 x 9	5 x 6
6 x 8 = ____	6 x 4 = ____				
6 x 3 = ____	6 x 0 = ____	7 x 6	6 x 3	6 x 8	6 x 1
7 x 6 = ____	1 x 6 = ____				
4 x 6 = ____	9 x 6 = ____	9 x 6	1 x 6	8 x 6	4 x 6
6 x 7 = ____	6 x 5 = ____				
6 x 1 = ____	2 x 6 = ____	6 x 7	6 x 0	6 x 5	2 x 6
8 x 6 = ____	4 x 6 = ____				
6 x 2 = ____	6 x 6 = ____	6 x 4	7 x 6	3 x 6	6 x 6
0 x 6 = ____	5 x 6 = ____				

Score: _____   Time: _____ minutes _____ seconds

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