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Mathematics

General Stream

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EM. End Matter/Glossary, from My Math Gr1 Indiana Vol 2 © 2017

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Contents in Brief

Read and Write Numbers

Chapter A Read and Write Numbers to 20

Operations and Algebraic Thinking

Chapter 1 Addition Concepts

Chapter 2 Subtraction Concepts

Chapter 3 Addition Strategies to 20

Chapter 4 Subtraction Strategies to 20

Number and Operations in Base Ten

Chapter 5 Place Value

Chapter 6 Two-Digit Addition and Subtraction

Measurement and Data

Chapter 7 Organize and Use Graphs

Chapter 8 Measurement and Time

Geometry

Chapter 9 Two-Dimensional Shapes and Equal Shares

Chapter 10 Three-Dimensional Shapes

**Mathematical
Practices**



**Woven
Throughout**

Chapter

4

Subtraction Strategies to 20

ESSENTIAL QUESTION

What strategies can I use to subtract?

Getting Started

Am I Ready?	275
My Math Words	276
My Vocabulary Cards	277
My Foldable FOLDABLES	279

Lessons and Homework

Lesson 1	Count Back 1, 2, or 3 to Subtract	281
Lesson 2	Use a Number Line to Subtract	287
Lesson 3	Use Doubles to Subtract	293
Lesson 4	Problem-Solving Strategy: Write a Number Sentence	299
Check My Progress		
Lesson 5	Make 10 to Subtract	307
Lesson 6	Use Related Facts to Add and Subtract	313
Lesson 7	Fact Families	319
Lesson 8	Missing Addends	325

Wrap Up

Fluency Practice	331
My Chapter Review	333
Reflect	336

Chapter

4

Subtraction Strategies to 20








**ESSENTIAL
QUESTION**




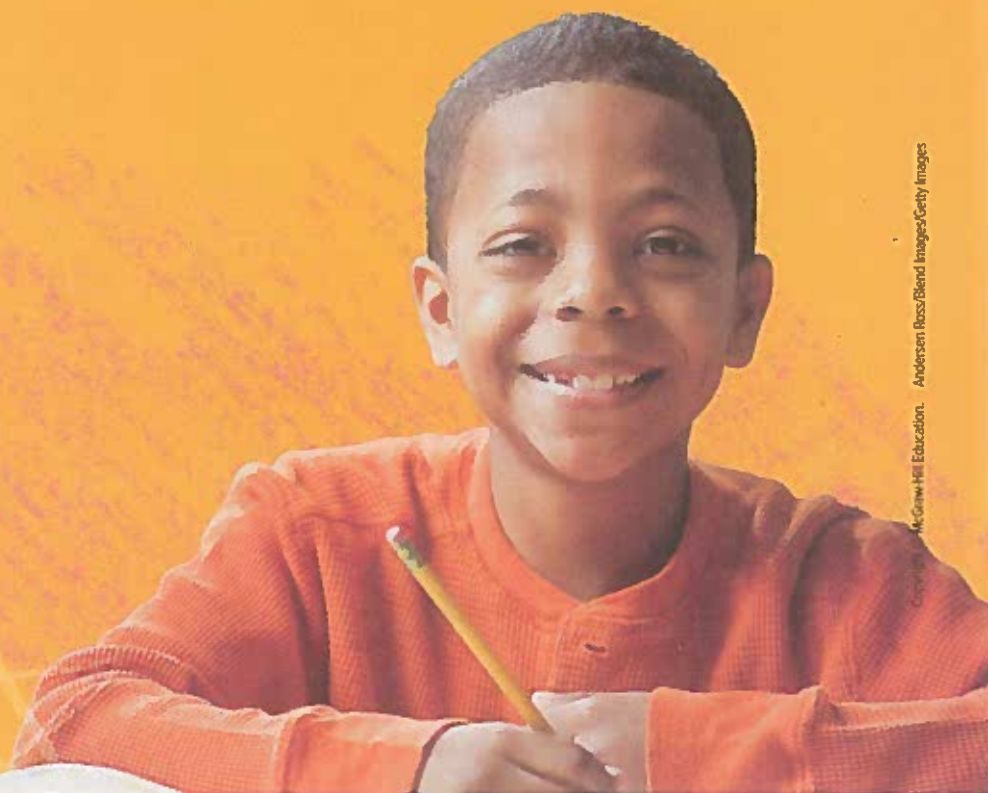
What strategies can I use to subtract?

Let's Explore
the ocean!

Mathematical Practices

1.  Make sense of problems and persevere in solving them.
2.  Reason abstractly and quantitatively.
3.  Construct viable arguments and critique the reasoning of others.
4.  Model with mathematics.
5. Use appropriate tools strategically.
6.  Attend to precision.
7.  Look for and make use of structure.
8.  Look for and express regularity in repeated reasoning.

 = focused on in this chapter



Name and Date _____

Am I Ready?

1. Circle the minus sign.

+ - =

2. Circle the equals sign.

+ - =

Subtract.

3.
$$\begin{array}{r} 6 \\ - 0 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$$

9. Cross out 4 whales. Use the pictures to write a subtraction number sentence.



_____ ○ _____ ○ _____

Shade the boxes to show the problems you answered correctly.

How Did I Do?

1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---

Name and Date

My Math Words

Review Vocabulary

false

related facts

true

Are the sets of number sentences related facts?

Circle true or false.

Number Sentences

True or False? Are they Related Facts?

$$3 + 4 = 7$$

true

false

$$7 - 3 = 4$$

$$5 + 2 = 7$$

true

false

$$9 - 2 = 7$$

$$8 + 4 = 12$$

true

false

$$12 - 4 = 8$$

My Vocabulary Cards

Mathematical Practices



count back



$$6 - 2 = 4$$

fact family



$$6 + 7 = 13$$

$$7 + 6 = 13$$

$$13 - 6 = 7$$

$$13 - 7 = 6$$

missing addend

$$5 + \square = 9$$

$$9 - 5 = \square$$



Teacher Directions:

Ideas for Use

- Have students draw examples for each vocabulary card. Have them make drawings that are different from what is shown on the card.

- Ask students to use the blank cards to write their own vocabulary cards.

Addition and subtraction sentences that use the same numbers.

On a number line, start at the greater number and count back.

You can use subtraction facts to find a missing addend. The missing addend is 4.

My Foldable

FOLDABLES

Follow the steps on the back to make your Foldable.

$$12 - 4 = 8$$

$$15 - 6 = 9$$

$$14 - 7 = 7$$

$$11 - 9 = 2$$

$$17 - 9 = 8$$

FOLDABLES®
Study Organizer



$$\underline{4} + \underline{8} = \underline{12}$$

$$\underline{8} + \underline{4} = \underline{12}$$

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

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

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

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

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

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

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

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

Name and Date

Count Back 1, 2, or 3 to Subtract

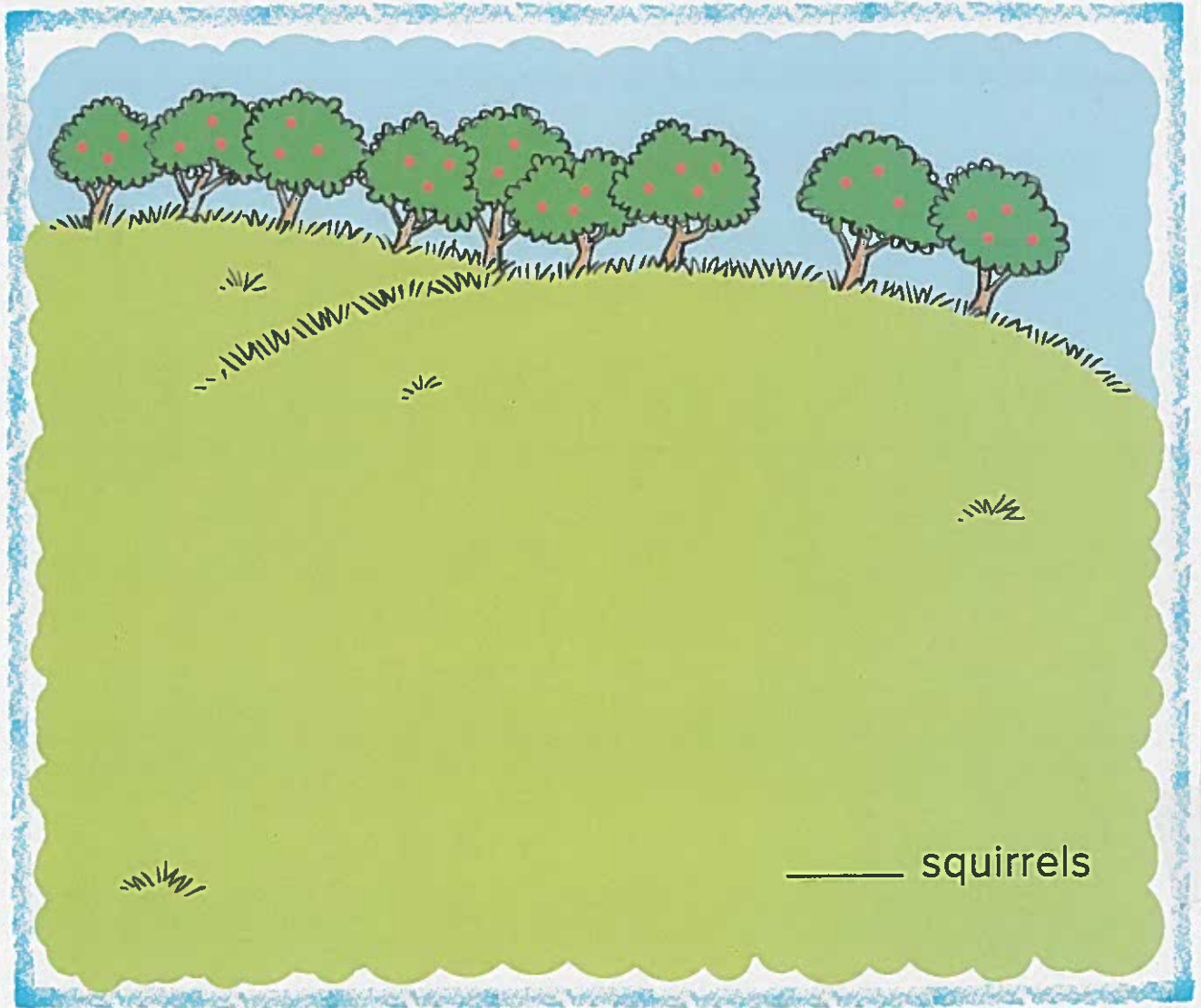
Lesson 1

ESSENTIAL QUESTION

What strategies can I use to subtract?




Explore and Explain



_____ squirrels




Teacher Directions: Use  to model. There are 5 squirrels playing. 3 of the squirrels run away. How many squirrels are still playing? Write the number.

See and Show

You can **count back** to subtract.

Start with 6. Count back 2.



6, 5, 4

$6 - 2 = \underline{4}$

Helpful Hint
Count back and take away cubes from the train. Write the numbers.

Count back to subtract. Use  to help.

1. Start with 8.



8, _____, _____, _____

$8 - 3 = \underline{\quad}$

2. 7, _____

$7 - 1 = \underline{\quad}$

3. 4, _____, _____

$4 - 2 = \underline{\quad}$

4. 12, _____, _____

$12 - 2 = \underline{\quad}$

5. 10, _____, _____, _____

$10 - 3 = \underline{\quad}$

Talk Math

How do you count back to find $7 - 2$?

Name and Date _____

On My Own

Count back to subtract.

Use  to help.



Your turn!

6. $11 - 2 = \underline{\quad}$

7. $12 - 3 = \underline{\quad}$

8. $3 - 2 = \underline{\quad}$

9. $10 - 3 = \underline{\quad}$

10. $9 - 3 = \underline{\quad}$

11. $4 - 1 = \underline{\quad}$

12. $6 - 1 = \underline{\quad}$

13. $11 - 3 = \underline{\quad}$

14. $7 - 3 = \underline{\quad}$

15. $9 - 2 = \underline{\quad}$

16.

$$\begin{array}{r} 17. \quad 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 8 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 12 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 10 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \quad 5 \\ - 3 \\ \hline \end{array}$$



Problem Solving



Mathematical Practices

Write a subtraction number sentence to solve.

22. There are 5 swans sitting on a rock. 1 of them flies away. How many swans are still sitting on the rock?

$$\underline{\quad} - \underline{\quad} = \underline{\quad} \text{ swans}$$

23. There are 11 boats at the dock. 3 of the boats leave. How many boats are still at the dock?

$$\underline{\quad} - \underline{\quad} = \underline{\quad} \text{ boats}$$



Write Math

How do you count back to find $11 - 2$? Explain.

Handwriting practice lines consisting of solid top and bottom lines with a dashed middle line.

Name and Date _____

My Homework

Lesson 1

Count Back
1, 2, or 3

Homework Helper

Find $5 - 2$. You can count back to subtract numbers.

Start with 5. Count back 2.



5,

4,

3

So, $5 - 2 = 3$.

Helpful Hint

Count back and
take away cubes
from the train.

Practice

Count back to subtract.

1. 7, _____, _____

$7 - 2 = \underline{\quad}$

2. 9, _____, _____, _____

$9 - 3 = \underline{\quad}$

3. 12, _____, _____, _____

$12 - 3 = \underline{\quad}$

4. 11, _____, _____

$11 - 2 = \underline{\quad}$

Count back to subtract.

5. $11 - 3 = \underline{\quad}$

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

7. $5 - 2 = \underline{\quad}$

8. $12 - 2 = \underline{\quad}$

9. $10 - 3 = \underline{\quad}$

10. $9 - 2 = \underline{\quad}$

$$\begin{array}{r} 11. \quad 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 12 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 11 \\ - 2 \\ \hline \end{array}$$

14. Ibrahim had 9 masks. He lost 3 of them.
How many masks does he have left?



 masks

Vocabulary Check

Circle the correct answer.

count back

count on

15. Start at the number 6 and _____ by 2 to get the difference of 4.



Math at Home Write $12 - 3 = \underline{\quad}$. Have your child write the answer and explain how to count back to solve the problem.

Name and Date _____

Use a Number Line to Subtract

Lesson 2

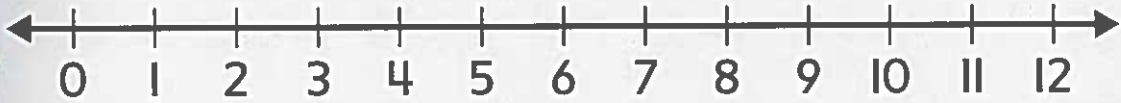
ESSENTIAL QUESTION ?
What strategies can I use to subtract?



Explore and Explain



Beach Balls for Sale



$$11 - 2 = \underline{\quad}$$



Teacher Directions: Use a paper clip to count back on the number line. A store has 11 beach balls to sell. It sells 2 of them. How many beach balls do they have left? Write the number.

See and Show



Mathematical Practices

You can use a number line to subtract.

$$9 - 3 = \underline{6}$$

Helpful Hint

Start at 9. Count back 3 to find the difference. 9, 8, 7, 6.



Use the number line to subtract. Show your work.

Write the difference.

1. $8 - 2 = \underline{\quad}$



2. $10 - 3 = \underline{\quad}$



3. $5 - 1 = \underline{\quad}$



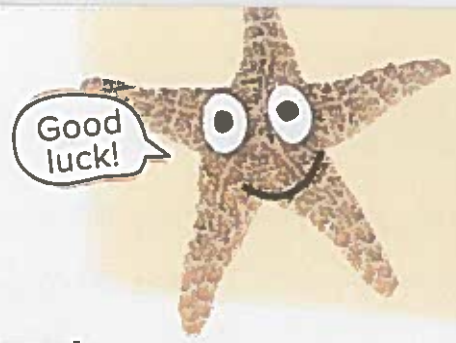
4. $12 - 3 = \underline{\quad}$



Talk Math

Can you only use the number line to help you subtract numbers? Explain.

Name and Date _____



On My Own

Use the number line to help you subtract.
Write the difference.



$$\begin{array}{r} 5. \quad 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 7 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 10 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 7 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 11 \\ - 3 \\ \hline \end{array}$$

$$11. \quad 12 - 1 = \underline{\quad}$$

$$12. \quad 9 - 2 = \underline{\quad}$$

$$13. \quad 10 - 1 = \underline{\quad}$$

$$14. \quad 11 - 2 = \underline{\quad}$$

$$15. \quad 5 - 3 = \underline{\quad}$$

$$16. \quad 10 - 3 = \underline{\quad}$$

$$17. \quad 12 - 2 = \underline{\quad}$$

$$18. \quad 7 - 2 = \underline{\quad}$$



Problem Solving



Mathematical Practices

19. Asma sees 12 sharks. 2 of them swim away. How many sharks does Asma see now?

_____ sharks

20. There are 11 manatees near the shore. 3 of them swim away. How many manatees are still near the shore?



_____ manatees

Write Math

How do you use a number line to help you subtract? Explain.

Name and Date _____

My Homework

Lesson 2

Use a Number
Line to Subtract

Homework Helper

Use the number line to help you subtract.



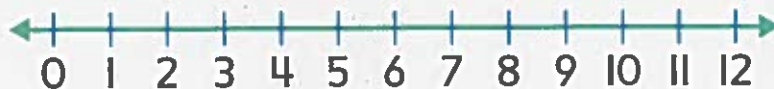
$$7 - 3 = 4$$

Practice

Use the number line to subtract. Show your work.

Write the difference.

1. $10 - 3 =$ _____



2. $6 - 2 =$ _____



3. $12 - 3 =$ _____



4. $5 - 2 =$ _____



Use the number line to help you subtract.

Write the difference.



5. $11 - 2 =$ _____

6. $6 - 1 =$ _____

7. $9 - 3 =$ _____

8. $12 - 1 =$ _____

9.
$$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

12. There are 10 sharks swimming.
2 of the sharks swim away. How
many sharks are still swimming?



_____ sharks

Test Practice

13. $10 - 3 =$ _____

0

3

7

8



Math at Home Have your child show $11 - 3$ using a number line. Have him or her explain how they are using the number line as they subtract.

Name and Date

Use Doubles to Subtract

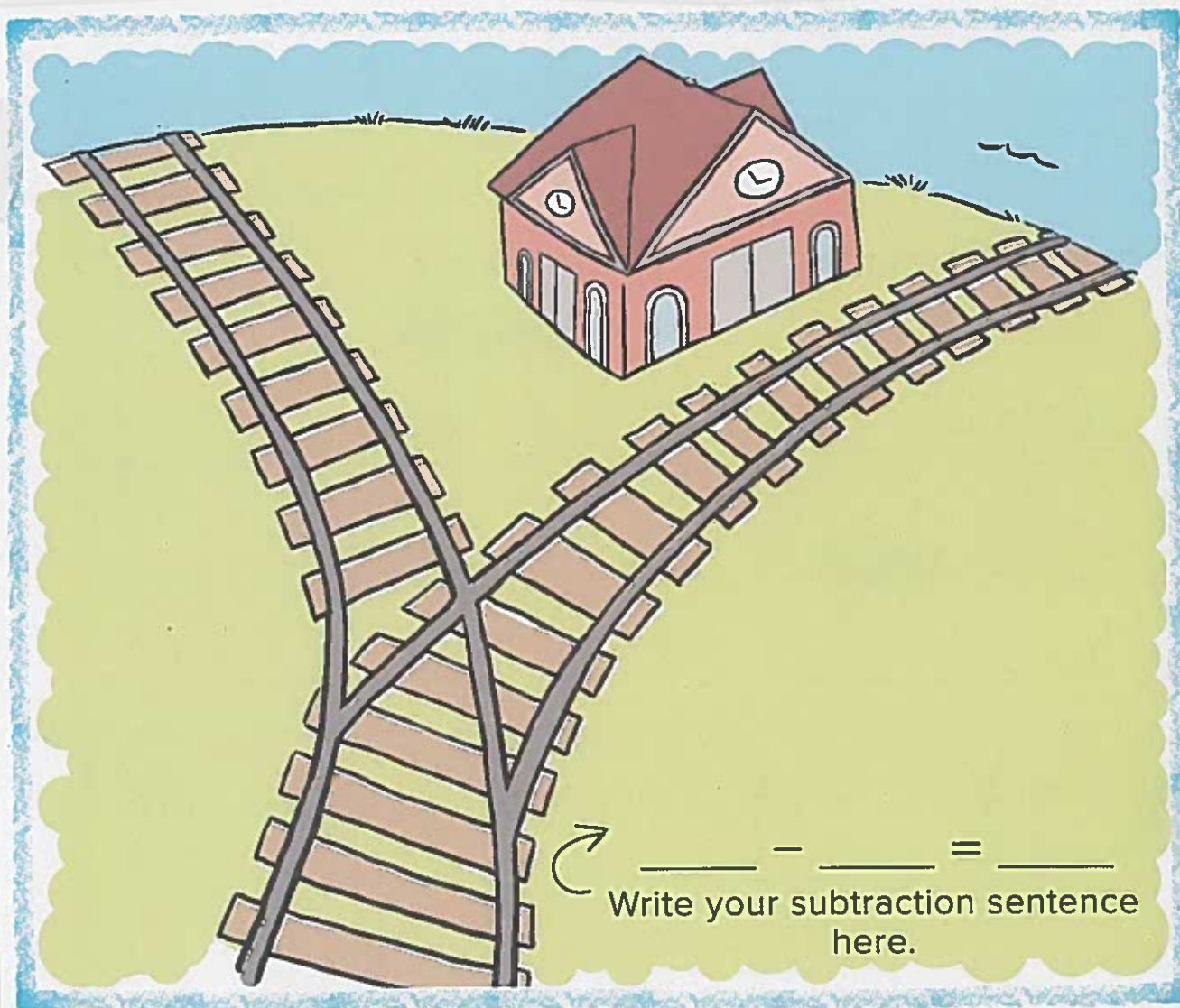
Lesson 3

ESSENTIAL QUESTION ?

What strategies can I use to subtract?





Explore and Explain



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Teacher Directions: Use   to model. A train with 4 red train cars and 4 yellow train cars is on the tracks. The red train cars go to the right and the yellow train cars go to the left. Write the subtraction number sentence.

See and Show

Mathematical Practices

You know how to use doubles facts to add.



$$4 + 4 = \underline{\quad 8 \quad}$$

Helpful Hint

Think $4 + 4 = 8$,
so $8 - 4 = 4$.

You can also use doubles facts to subtract.



$$8 - 4 = \underline{\quad 4 \quad}$$

Add the doubles facts. Then subtract.



1. $2 + 2 = \underline{\quad \quad}$



$4 - 2 = \underline{\quad \quad}$



2. $3 + 3 = \underline{\quad \quad}$



$6 - 3 = \underline{\quad \quad}$

3.
$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 1 \\ + 1 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ - 1 \\ \hline \end{array}$$

Talk Math

How can using doubles facts help you subtract?

Name and Date _____

On My Own

Add the doubles facts. Then subtract.

5. $10 + 10 =$ _____

$20 - 10 =$ _____

6. $4 + 4 =$ _____

$8 - 4 =$ _____

7.
$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$$

Add or subtract. Draw lines to match the doubles facts.

11. $10 + 10 =$ _____

$14 - 7 =$ _____

12. $9 + 9 =$ _____

$16 - 8 =$ _____

13. $8 + 8 =$ _____

$18 - 9 =$ _____

14. $7 + 7 =$ _____

$20 - 10 =$ _____



Problem Solving



Mathematical
Practices

- 15.** Eiman sees 18 crabs on the beach.
9 of the crabs go in the ocean.
How many crabs does Eiman now
see on the beach?

_____ crabs

- 16.** Ahmed found 14 shells on the
beach. He gave 7 of the shells
to his brother. How many shells
does Ahmed have left?

_____ shells

Sally sells
seashells by
the seashore!



HOT Problem Usama wrote $13 - 6 = 7$ on the
board to show a doubles fact. Tell why Usama is
wrong. Make it right.

Name and Date _____

My Homework

Lesson 3

Use Doubles
to Subtract

Homework Helper

You can use doubles facts to help you subtract.



$$5 + 5 = 10$$



$$10 - 5 = 5$$

Practice

Add the doubles facts. Then subtract.

1. $4 + 4 =$ _____

$8 - 4 =$ _____

2. $9 + 9 =$ _____

$18 - 9 =$ _____

3. $8 + 8 =$ _____

$16 - 8 =$ _____

4. $7 + 7 =$ _____

$14 - 7 =$ _____

5. $3 + 3 =$ _____

$6 - 3 =$ _____

6. $1 + 1 =$ _____

$2 - 1 =$ _____

Add the doubles facts. Then subtract.

7.
$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

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

$$\begin{array}{r} 20 \\ - 10 \\ \hline \end{array}$$

Subtract.

11. Buthaina has 6 pairs of sunglasses. She breaks 3 of them. How many pairs of sunglasses does she have left?

_____ sunglasses

Test Practice

12. Find the matching doubles fact.

$$9 + 9 = 18$$

$$16 - 9 = 7 \quad 18 - 9 = 9 \quad 7 + 7 = 14 \quad 18 - 9 = 8$$



Math at Home Write a doubles fact such as $7 + 7 = 14$. Ask your child to give you a related subtraction fact.

Name and Date _____



Problem Solving

STRATEGY: Write a Number Sentence

Lesson 4

ESSENTIAL QUESTION ?

What strategies can I use to subtract?

There are 6 seagulls flying
over the ocean. 2 of the seagulls
land in the ocean. How many seagulls
are still flying?

1 Understand Underline what you know. Circle what you need to find.

2 Plan How will I solve the problem?

3 Solve I will write a number sentence.

___ ○ ___ ○ ___ seagulls

4 Check Is my answer reasonable? Explain.

There are 11 children building sand castles on the beach.
3 of the children go home.
How many children are still building sand castles?



1 Understand Underline what you know.
Circle what you need to find.

2 Plan How will I solve the problem?

3 Solve I will...

_____ ○ _____ ○ _____ children

4 Check Is my answer reasonable? Explain.

I'm tired!
That was
hard work!



Review the Strategies

Choose a strategy

- Write a number sentence.
- Draw a diagram.
- Act it out.

4. Badr saw 12 **jellyfish** in the ocean. Yasmin saw 7 **jellyfish** there. How many more **jellyfish** did Badr see than Yasmin?

_____ **jellyfish**

5. There are 5 **alligators** swimming. 3 of them get out of the water. How many of the **alligators** are still swimming?

Ready for my close up!



_____ **alligators**

6. Hessa had 10 **sandals**. She gave away 6 of them. How many **sandals** does Hessa have left?

_____ **sandals**

Name and Date

My Homework

Lesson 4

Problem Solving:
Write a Number Sentence

Homework Helper

There are 12 dolphins swimming together. 6 of the dolphins swim away.

How many dolphins are still swimming together?

1 Understand Underline what you know.
Circle what you need to find.

2 Plan How will I solve the problem?

3 Solve I will write a number sentence.

$$12 - 6 = 6$$

6 dolphins are still swimming together.

4 Check Is my answer reasonable?





Problem Solving

Underline what you know. Circle what you need to find.
Write a subtraction number sentence to solve.

1. There are 9 flamingos in the water.
5 flamingos get out. How many flamingos are still in the water?

Where's my towel?



_____ ○ _____ ○ _____ flamingos

2. 13 stingrays are swimming together.
4 of them swim away. How many stingrays are still swimming together?

_____ ○ _____ ○ _____ stingrays

3. Mazen saw 11 hermit crabs on the beach.
Jamal saw 6 hermit crabs there. How many more hermit crabs did Mazen see?

_____ ○ _____ ○ _____ hermit crabs



Math at Home Give your child a subtraction problem about things around the house. Have him or her write a subtraction number sentence to solve the problem.

Check My Progress

Vocabulary Check

Circle the correct answer.

count back

count on

1. Start at a number and _____ to subtract.

Concept Check

Count back to subtract.

2. $9 - 1 = \underline{\quad}$

3. $11 - 3 = \underline{\quad}$

4. $5 - 2 = \underline{\quad}$

5. $7 - 3 = \underline{\quad}$

6. $10 - 1 = \underline{\quad}$

7. $8 - 3 = \underline{\quad}$

8.
$$\begin{array}{r} 12 \\ - 2 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 11 \\ - 2 \\ \hline \end{array}$$

Use the number line to subtract. Write the difference.



11.
$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 12 \\ - 3 \\ \hline \end{array}$$

Add the doubles facts. Then subtract.

14.
$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$$

Write a subtraction number sentence to solve.

16. There are 10 **bikes** parked at the beach. 2 children leave with their **bikes**. How many **bikes** are still at the beach?

_____ - _____ = _____ **bikes**

Test Practice

17. There are 14 **whales** swimming together. 7 of them swim away. How many **whales** are still swimming together?

6 **whales**

7 **whales**

9 **whales**

21 **whales**

Name and Date

Make 10 to Subtract

Lesson 5

ESSENTIAL QUESTION?
What strategies can I use to subtract?



You crack me up!



Explore and Explain

$13 - 7 =$


3	4
---	---

$13 - \underline{3} = \underline{10}$

$\underline{10} - \underline{4} = \underline{6}$

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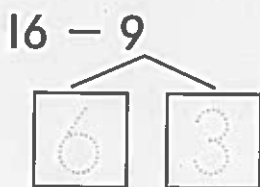


Teacher Directions: Use  to model. There are 13 coconuts on the island. 7 of the coconuts roll into the ocean. How many coconuts are left on the island? Trace the numbers. Draw the number of coconuts that are left on the island.

See and Show

Mathematical Practices

To subtract, first take apart a number to make a 10. Then subtract.



$$16 - \underline{6} = 10$$
$$10 - \underline{3} = \boxed{7}$$

So, $\underline{16} - \underline{9} = \underline{7}$.

Helpful Hint

Think $16 - 6 = 10$.
So, break apart
9 as 6 and 3.

$$16 - 6 = 10 \text{ and}$$
$$10 - 3 = 7$$

Use  and . Take apart the number to make a 10. Then subtract.

1. $12 - 7$

$$12 - \underline{\quad} = \boxed{\quad}$$

$$\underline{\quad} - \underline{\quad} = \boxed{\quad}$$

So, $12 - 7 = \underline{\quad}$.

2. $15 - 6$

$$15 - \underline{\quad} = \boxed{\quad}$$

$$\underline{\quad} - \underline{\quad} = \boxed{\quad}$$



So, $15 - 6 = \underline{\quad}$.

Talk Math

Explain how you can make a ten to find $13 - 7$.

Name and Date _____

On My Own

Use  and . Take apart the number to make a 10. Then subtract.

3. $17 - 9$

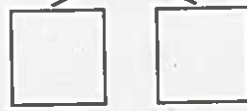


$$17 - \underline{\quad} = \square$$

$$\underline{\quad} - \underline{\quad} = \square$$

So, $17 - 9 = \underline{\quad}$.

4. $12 - 8$



$$12 - \underline{\quad} = \square$$

$$\underline{\quad} - \underline{\quad} = \square$$

So, $12 - 8 = \underline{\quad}$.

5. $11 - 5$

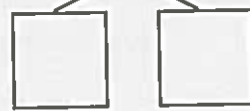


$$11 - \underline{\quad} = \square$$

$$\underline{\quad} - \underline{\quad} = \square$$

So, $11 - 5 = \underline{\quad}$.

6. $14 - 7$



$$14 - \underline{\quad} = \square$$

$$\underline{\quad} - \underline{\quad} = \square$$

So, $14 - 7 = \underline{\quad}$.



Problem Solving



Mathematical Practices

7. Khadija has 13 hats. She gives away 8 of them. How many hats does she have left?

_____ hats

8. There are 18 sea horses swimming in a group. 9 of the sea horses swim away. How many sea horses are still swimming in the group?



_____ sea horses

Write Math

How do you take apart a number to subtract? Explain.

Handwriting practice lines consisting of solid top and bottom lines with a dashed middle line.

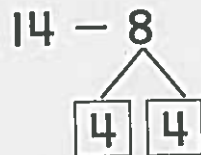
My Homework

Lesson 5

Make 10 to Subtract

Homework Helper

You can make a 10 to subtract more easily.



$$14 - \underline{4} = \boxed{10}$$

$$\underline{10} - \underline{4} = \boxed{6}$$

So, $14 - 8 = 6$.

Helpful Hint

Think $14 - 4 = 10$.
So, break apart
8 as 4 and 4.

$$\begin{array}{l}
 14 - 4 = 10 \text{ and} \\
 10 - 4 = 6
 \end{array}$$

Practice

Take apart the number to make a 10. Then subtract.

1. $17 - 9$

$$\begin{array}{c}
 \square \quad \square \\
 \swarrow \quad \searrow \\
 17 - \underline{\quad} = \square \\
 \underline{\quad} - \underline{\quad} = \square
 \end{array}$$

So, $17 - 9 = \underline{\quad}$.

2. $13 - 7$

$$\begin{array}{c}
 \square \quad \square \\
 \swarrow \quad \searrow \\
 13 - \underline{\quad} = \square \\
 \underline{\quad} - \underline{\quad} = \square
 \end{array}$$

So, $13 - 7 = \underline{\quad}$.

Take apart the number to make a 10. Then subtract.

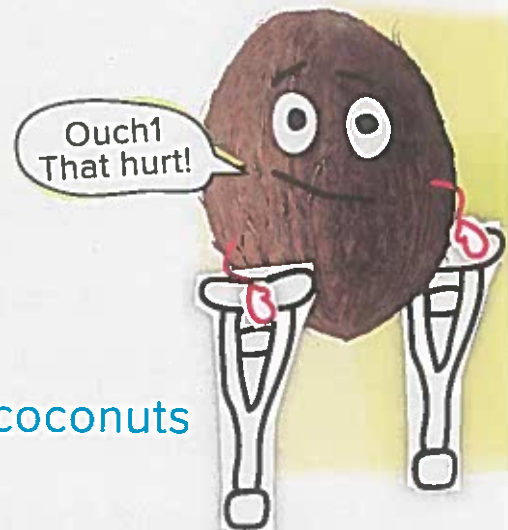
3. $11 - 2$

So, $11 - 2 = \underline{\quad}$.

4. $16 - 8$

So, $16 - 8 = \underline{\quad}$.

5. There are 18 coconuts on a tree.
9 coconuts fall off the tree. How many coconuts are still on the tree?



_____ coconuts

Test Practice

6. Rana collects 15 shells at the beach.
She gives her brother 6 of them.
How many shells does she have left?

18 shells 12 shells 11 shells 9 shells



Math at Home Write $13 - 8 = \underline{\quad}$ on a piece of paper. Have your child use buttons or marbles to help him or her subtract.

Name and Date _____

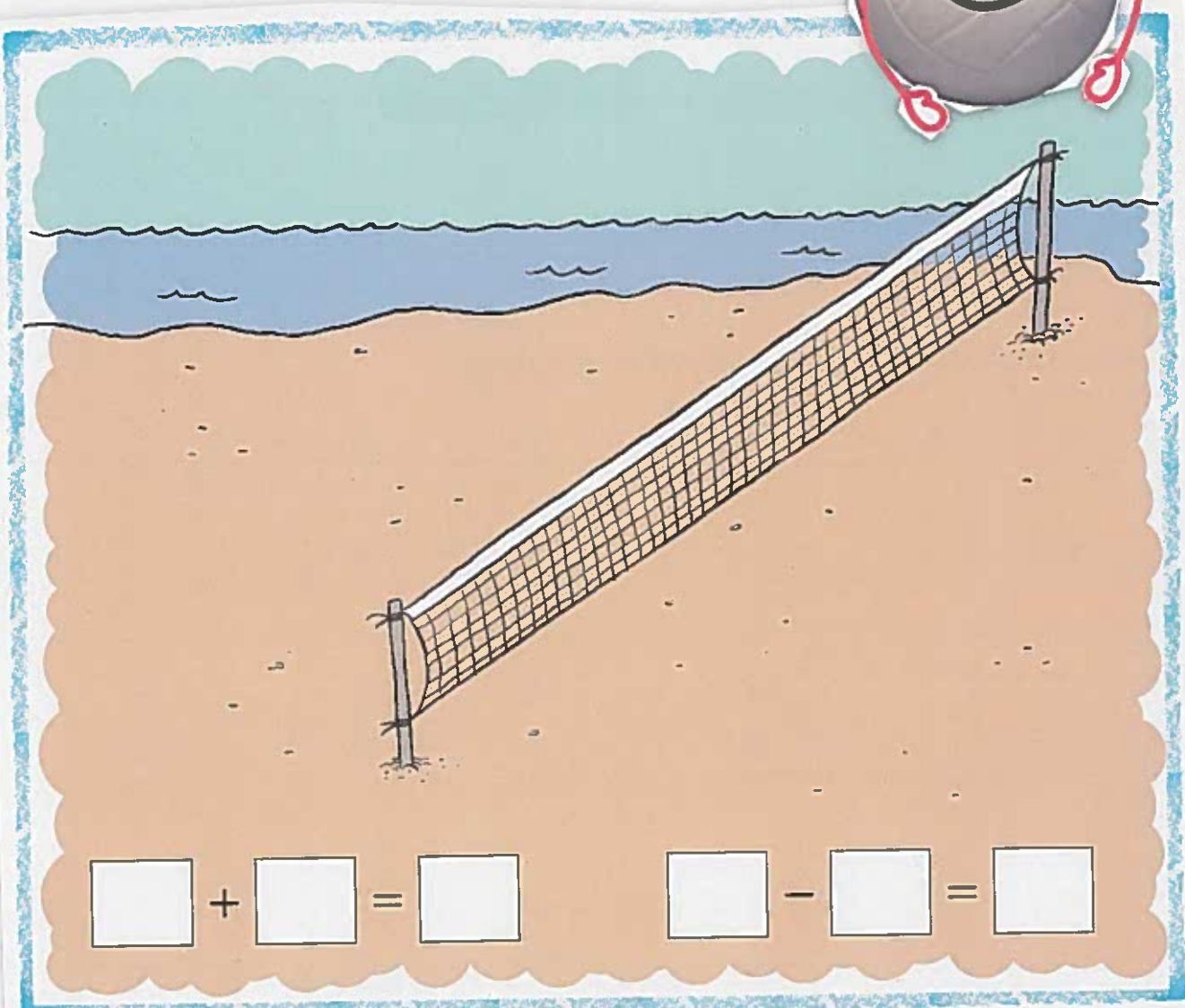
Use Related Facts to Add and Subtract

Lesson 6

ESSENTIAL QUESTION ?
What strategies can I use to subtract?




Explore and Explain



$$\square + \square = \square$$

$$\square - \square = \square$$



Teacher Directions: Use  to model. There are 6 players on one side of the net and 8 players on the other side. How many people are playing volleyball in all? Write the addition number sentence. Then write a related subtraction fact.

See and Show

Mathematical Practices

Related facts use the same numbers.
These facts can help you add and subtract.
Find $11 - 5$.



$$6 + 5 = \underline{\quad}$$

Helpful Hint

Use $6 + 5 = 11$ to find $11 - 5 = 6$.



$$11 - 5 = \underline{6}$$

Use related facts to add and subtract.

1. $7 + 9 = \underline{\quad}$

2. $5 + 8 = \underline{\quad}$

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

$13 - 5 = \underline{\quad}$

3.
$$\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 5 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 7 \\ \hline \end{array}$$

Talk Math

Are the facts $1 + 5 = 6$ and $6 - 1 = 5$ related facts? How do you know?

Name and Date _____

On My Own

Use related facts to add and subtract.

5. $9 + 6 = \underline{\quad}$

$15 - 9 = \underline{\quad}$

6. $6 + 7 = \underline{\quad}$

$13 - 6 = \underline{\quad}$

7. $3 + 9 = \underline{\quad}$

$12 - 3 = \underline{\quad}$

8. $8 + 9 = \underline{\quad}$

$17 - 8 = \underline{\quad}$

9.
$$\begin{array}{r} 6 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 8 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$$

Subtract. Write an addition fact to check your subtraction.

11. $16 - 9 = \underline{\quad}$

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

12. $12 - 7 = \underline{\quad}$

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

13. $14 - 9 = \underline{\quad}$

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

14. $11 - 4 = \underline{\quad}$

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



Problem Solving



Mathematical
Practices

Write a subtraction number sentence.
Then write a related addition fact.

15. Humaid sees 15 **birds** sitting on a rock.
7 of the **birds** fly away. How many
of the **birds** are still on the rock?

$$\underline{\quad} - \underline{\quad} = \underline{\quad} \qquad \underline{\quad} + \underline{\quad} = \underline{\quad}$$

16. Jamal collects 10 **shells**. He loses
6 of them. How many **shells** does
Jamal have left?

$$\underline{\quad} - \underline{\quad} = \underline{\quad} \qquad \underline{\quad} + \underline{\quad} = \underline{\quad}$$

Write Math

How can related facts help you add
and subtract? Explain.

Handwriting practice lines consisting of a solid top line, a dashed middle line, and a solid bottom line. There are four sets of these lines provided for writing.

Name and Date _____

My Homework

Lesson 6

Use Related
Facts to Add
and Subtract

Homework Helper

Related facts can help you add and subtract.

$$8 + 4 = 12$$

$$9 + 6 = 15$$

$$12 - 4 = 8$$

$$15 - 9 = 6$$

Practice

Use related facts to add and subtract.

1. $5 + 9 = \underline{\quad}$

2. $9 + 5 = \underline{\quad}$

$$14 - 5 = \underline{\quad}$$

$$14 - 9 = \underline{\quad}$$

3. $6 + 5 = \underline{\quad}$

4. $9 + 9 = \underline{\quad}$

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

$$18 - 9 = \underline{\quad}$$

5.
$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 8 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 8 \\ \hline \end{array}$$

Subtract. Write an addition fact to check your subtraction.

7. $15 - 8 = \underline{\quad}$

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

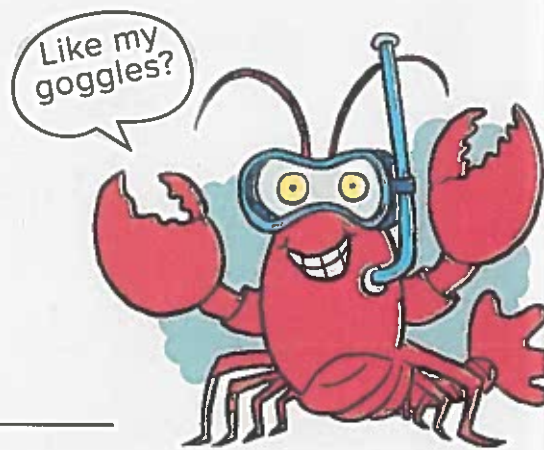
8. $17 - 9 = \underline{\quad}$

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

Write a subtraction number sentence.
Then write a related addition fact.

9. There are 16 lobsters swimming together. 7 of them swim away. How many lobsters are still swimming together?

$\underline{\quad} - \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$



Test Practice

10. Mark the related addition fact.

$7 - 3 = 4$

$7 + 3 = 10$



$7 - 4 = 3$



$7 + 1 = 8$



$3 + 4 = 7$



Math at Home Write an addition fact such as $3 + 9 = 12$. Ask your child to write a related subtraction fact.

Name and Date _____

Fact Families

Lesson 7

ESSENTIAL QUESTION ?

What strategies can I use to subtract?



Home,
sweet home!

Explore and Explain




$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$



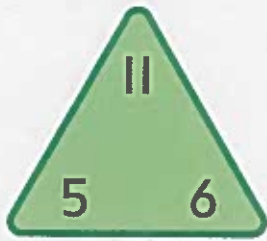
Teacher Directions: Use  to model. There are 7 fish swimming together in a group. 3 more fish join them. Draw a picture to show the story. Write the missing numbers to show the fact family.

See and Show

Helpful Hint

5, 6, and 11 are a fact family.

Related facts make a **fact family**.



$5 + 6 = \boxed{\text{||||}}$ $11 - 5 = \boxed{6}$

$6 + 5 = \boxed{\text{||||}}$ $11 - 6 = \boxed{5}$

Add and subtract. Complete the fact family.

1.



$7 + 2 = \boxed{}$ $9 - 7 = \boxed{}$

$2 + 7 = \boxed{}$ $9 - 2 = \boxed{}$

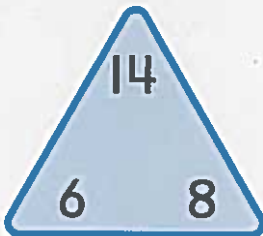
2.



$5 + 8 = \boxed{}$ $13 - 5 = \boxed{}$

$8 + 5 = \boxed{}$ $13 - 8 = \boxed{}$

3.



$6 + 8 = \boxed{}$ $14 - 6 = \boxed{}$

$8 + 6 = \boxed{}$ $14 - 8 = \boxed{}$

Talk Math

What fact family can you make with the numbers 4, 9, and 13?

Name and Date

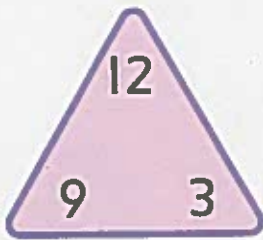
In a fact family, all facts have the same numbers.

On My Own

Add and subtract.

Complete the fact family.

4.



$9 + 3 = \square$

$12 - 9 = \square$

$3 + 9 = \square$

$12 - 3 = \square$

5.



$3 + 5 = \square$

$8 - 3 = \square$

$5 + 3 = \square$

$8 - 5 = \square$

6.



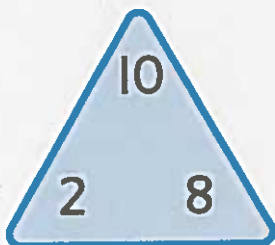
$6 + 9 = \square$

$15 - 9 = \square$

$9 + 6 = \square$

$15 - 6 = \square$

7.



$2 + 8 = \square$

$10 - 2 = \square$

$8 + 2 = \square$

$10 - 8 = \square$



Problem Solving

Mathematical Practices

8. Khalaf finds 12 **starfish** at the beach. He gives 5 to his grandmother. How many **starfish** does he have left?

_____ **starfish**

9. There are 16 **turtles** in the ocean. 7 of those **turtles** get out. How many **turtles** are still in the ocean?

Surf's up!



_____ **turtles**

HOT Problem When I am subtracted from 17, the difference is 9. What number am I? Explain.

$$17 - \square = 9$$

Handwriting practice lines consisting of a solid top line, a dashed middle line, and a solid bottom line. There are four sets of these lines provided for writing an explanation.

Name and Date _____

My Homework

Lesson 7

Fact Families

Homework Helper

Related facts make up a fact family.



$5 + 7 = 12$

$12 - 5 = 7$

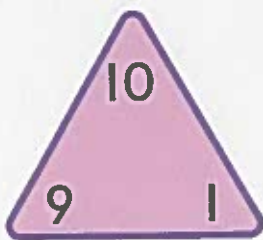
$7 + 5 = 12$

$12 - 7 = 5$

Practice

Add and subtract. Complete the fact family.

1.



$1 + 9 = \square$

$10 - 9 = \square$

$9 + 1 = \square$

$10 - 1 = \square$

2.



$6 + 9 = \square$

$15 - 9 = \square$

$9 + 6 = \square$

$15 - 6 = \square$

Complete the fact family.

3. Ahmad sees 5 flamingos in the water. He sees 4 flamingos on the grass. How many flamingos did he see in all?

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

4. Al Yazeha saw 9 crabs on the beach in the morning. She saw 8 more crabs in the afternoon. How many crabs did Al Yazeha see in all?

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

Vocabulary Check

5. Circle the fact family.

$$2 + 3 = 5 \quad 4 - 2 = 2 \quad 7 + 8 = 15 \quad 15 - 8 = 7$$

$$3 + 1 = 4 \quad 5 - 1 = 4 \quad 8 + 7 = 15 \quad 15 - 7 = 8$$



Math at Home Challenge your child to write all of the fact families that make 15.

Name and Date _____

Missing Addends

Lesson 8

ESSENTIAL QUESTION ?
What strategies can I use to subtract?



1-2-3, I'm spot free!

Explore and Explain

● Part	● Part
7	4
Whole	
11	



Teacher Directions: Use ●● to model. The butterfly has 7 spots on the left wing and some more spots on its right wing. It has 11 spots in all. How many spots are on the right wing? Trace your counters to show the spots. Trace the missing part.



See and Show

Use related facts to help you find a **missing addend**.

Helpful Hint

To find the missing part, subtract the known part from the whole.

Part	Part
7	5
Whole	
12	

$$7 + \boxed{5} = 12$$

$$12 - 7 = \boxed{5}$$

So, 5 is the missing addend.

Use Work Mat 6 and . Find the missing addend.

1.

Part	Part
5	_____
Whole	
13	

$$5 + \boxed{} = 13$$

Think:

$$13 - 5 = \boxed{}$$

2.

Part	Part
_____	5
Whole	
8	

$$\boxed{} + 5 = 8$$

Think:

$$8 - 5 = \boxed{}$$

Talk Math

Explain how to find the missing

addend in $\boxed{} + 5 = 14$.

Name and Date

You can find missing addends by subtracting.

On My Own

Use Work Mat 6 and ●●. Find the missing addend.

3.

● Part	● Part
4	_____
Whole	
10	

$$4 + \square = 10$$

$$10 - 4 = \square$$

4.

● Part	● Part
_____	6
Whole	
14	

$$\square + 6 = 14$$

$$14 - 6 = \square$$

5. $8 + \square = 9$

$$9 - 8 = \square$$

6. $\square + 3 = 11$

$$11 - 3 = \square$$

7. $\square + 7 = 13$

$$13 - 7 = \square$$

8. $6 + \square = 15$

$$15 - 6 = \square$$

9. $9 + \square = 17$

$$17 - 9 = \square$$

10. $9 + \square = 16$

$$16 - 9 = \square$$



Problem Solving

Mathematical Practices



11. Rashid has 5 shovels and some sand pails at the beach. He has 14 shovels and sand pails in all. How many sand pails does he have?

Sand and Sun!



_____ sand pails

12. When 1 is added to 7, the sum is 12. What number am I?

7 12

Write Math

How do you use subtraction to find a missing addend in an addition problem? Explain.

My Homework

Lesson 8

Missing Addends

Homework Helper

You can use related facts to help you find a missing addend.

● Part	● Part
5	4
Whole	
9	

$$5 + \boxed{4} = 9$$

$$9 - 5 = \boxed{4}$$

Helpful Hint

To find the missing part, subtract the known part from the whole.

Practice

Find the missing addend.

1.

● Part	● Part
8	_____
Whole	
11	

$$8 + \boxed{} = 11$$

$$11 - 8 = \boxed{}$$

2.

● Part	● Part
_____	8
Whole	
16	

$$\boxed{} + 8 = 16$$

$$16 - 8 = \boxed{}$$

Find the missing addend.

3. $9 + \square = 18$

$18 - 9 = \square$

4. $\square + 6 = 14$

$14 - 6 = \square$

5. $\square + 8 = 15$


$15 - 8 = \square$

6. $5 + \square = 11$

$11 - 5 = \square$

7. There are 16 children flying kites on the beach. Some of the children go home. 9 children are still flying kites. How many children went home?

_____ children



This should be a breeze!

Vocabulary Check

8. Circle the number sentence that shows a missing addend.

$4 + 8 = 12$

$7 + \square = 15$



Math at Home Ask your child to tell you the subtraction fact that will help him or her find the missing addend in $8 + \square = 15$.

Name and Date _____



Mathematical
Practices

Fluency Practice

Subtract.

1. $5 - 3 = \underline{\quad}$

2. $18 - 9 = \underline{\quad}$

3. $4 - 2 = \underline{\quad}$

4. $10 - 6 = \underline{\quad}$

5. $11 - 5 = \underline{\quad}$

6. $7 - 0 = \underline{\quad}$

7. $9 - 9 = \underline{\quad}$

8. $4 - 1 = \underline{\quad}$

9. $14 - 6 = \underline{\quad}$

10. $3 - 0 = \underline{\quad}$

11. $1 - 1 = \underline{\quad}$

12. $8 - 3 = \underline{\quad}$

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

14. $6 - 3 = \underline{\quad}$

15. $5 - 4 = \underline{\quad}$

16. $16 - 8 = \underline{\quad}$

17. $4 - 4 = \underline{\quad}$

18. $15 - 6 = \underline{\quad}$

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

20. $17 - 8 = \underline{\quad}$

21. $9 - 1 = \underline{\quad}$

22. $7 - 3 = \underline{\quad}$

23. $14 - 7 = \underline{\quad}$

24. $10 - 5 = \underline{\quad}$

Fluency Practice

Subtract.

$$\begin{array}{r} 1. \quad 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 7 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 14 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 2 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 17 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 10 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 5 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 6 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 11 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 4 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 12 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 1 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 3 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 15 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 13 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 8 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 10 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \quad 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 22. \quad 3 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \quad 16 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 24. \quad 11 \\ - 2 \\ \hline \end{array}$$

My Chapter Review

Chapter 4

Subtraction Strategies to 20

Vocabulary Check

Circle the correct answer.

1. count back

$$6 - 2 =$$



$$6 - 2 =$$



2. fact family

$$7 + 3 = 10$$

$$3 + 7 = 10$$

$$10 - 7 = 3$$

$$10 - 3 = 7$$

$$6 + 4 = 10$$

$$4 + 6 = 10$$

$$5 + 5 = 10$$

$$8 + 2 = 10$$

3. missing addend

$$8 + 3 = 11$$

$$8 + \square = 11$$

4. difference

$$9 - 4 = \downarrow 5$$

$$6 - 1 = \downarrow 5$$

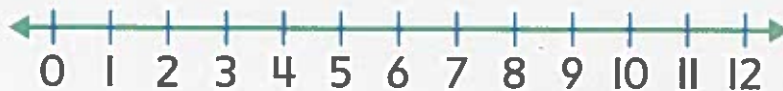
Concept Check

Count back to subtract.

5. $7 - 3 = \underline{\quad}$

6. $9 - 2 = \underline{\quad}$

Use the number line to help you subtract.



7. $11 - 2 = \underline{\quad}$

8. $10 - 1 = \underline{\quad}$

Add the doubles facts. Then subtract.

9. $6 + 6 = \underline{\quad}$

10. $8 + 8 = \underline{\quad}$

$12 - 6 = \underline{\quad}$

$16 - 8 = \underline{\quad}$

Add and subtract. Complete the fact family.

11.



$3 + 5 = \square$

$8 - 3 = \square$

$5 + 3 = \square$

$8 - 5 = \square$

Find the missing addend.

12. $5 + \square = 12$

13. $9 + \square = 14$

$12 - 5 = \square$

$14 - 9 = \square$

Name and Date _____



Problem Solving

14. Ayesha writes two related facts using these numbers. What related facts could she have written?

12, 8, 4

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

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

15. Mohammad caught 15 fish. Zayed caught 7 fish. How many more fish did Mohammad catch than Zayed?

$$\underline{\quad} - \underline{\quad} = \underline{\quad} \text{ fish}$$

Test Practice

16. Nasser has 14 jump ropes. What doubles fact shows the number of jump ropes Nasser has?

$7 + 8 = 14$ jump ropes



$7 + 7 = 14$ jump ropes



$14 - 5 = 9$ jump ropes



$6 + 6 = 12$ jump ropes



Reflect

Chapter 4

Answering the Essential Question

Show the ways to subtract.

ESSENTIAL QUESTION

What strategies can I use to subtract?

Count Back

12, _____, _____, _____

$$12 - 3 = \underline{\quad}$$

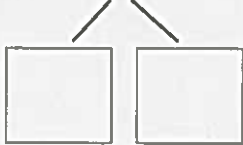
Use Doubles

$$10 + 10 = \underline{\quad}$$

$$20 - 10 = \underline{\quad}$$

Make a Ten

$$17 - 8$$



$$\underline{\quad} - \underline{\quad} = \square$$

$$\underline{\quad} - \underline{\quad} = \square$$

So, $17 - 8 = \underline{\quad}$.

Missing Addend

$$5 + \square = 14$$

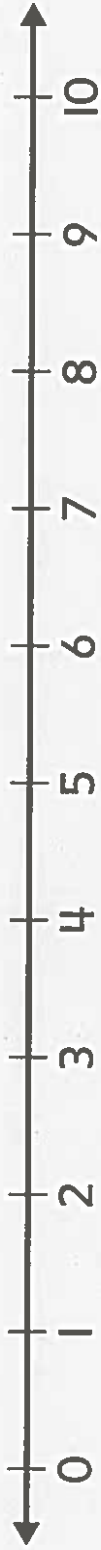
$$14 - 5 = \square$$

Name & Date

Work Mat I: Five-Frame

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Work Mat 2: Number Lines



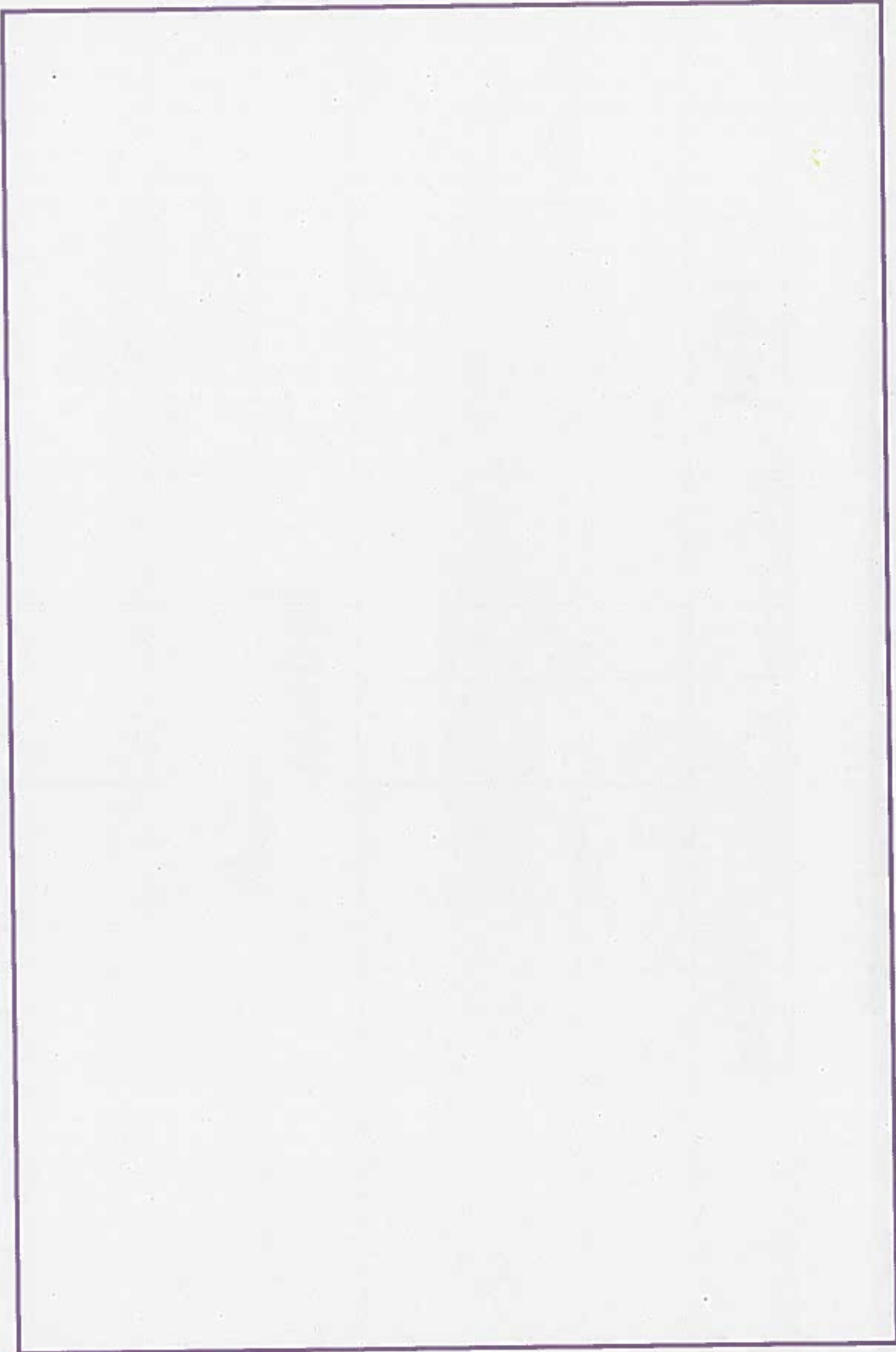
Name & Date

Work Mat 3: Ten-Frame

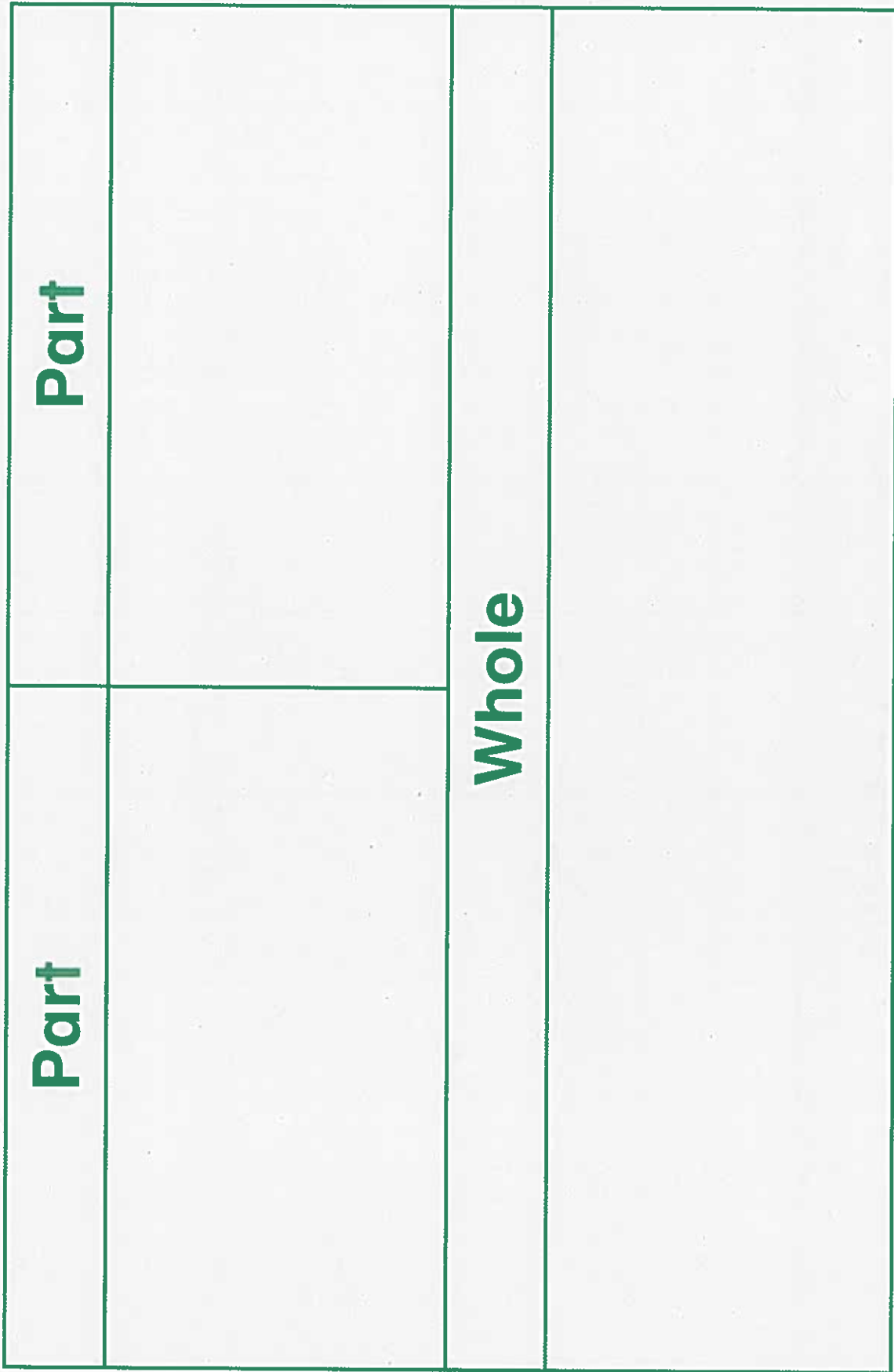
Work Mat 4: Ten-Frames

Name & Date

Work Mat 5: Story Mat



Work Mat 6: Part-Part-Whole



Name & Date

Work Mat 7: Tens and Ones Chart

Tens	Ones

Work Mat 8: Hundreds, Tens, and Ones Chart

Hundreds	Tens	Ones

Roman Numerals

Representation
of Arabic
and Roman
Numerals

1 = I	11 = XI
2 = II	12 = XII
3 = III	13 = XIII
4 = IV	14 = XIV
5 = V	15 = XV
6 = VI	16 = XVI
7 = VII	17 = XVII
8 = VIII	18 = XVIII
9 = IX	19 = XIX
10 = X	20 = XX

Special Numbers:

50 = L	500 = D
100 = C	1000 = M

Indian Numerals

Representation
of Arabic and
Indian Numerals

1 = १	11 = ११
2 = २	12 = १२
3 = ३	13 = १३
4 = ४	14 = १४
5 = ५	15 = १५
6 = ६	16 = १६
7 = ७	17 = १७
8 = ८	18 = १८
9 = ९	19 = १९
10 = १०	20 = २०

Special Numbers:

0 = ०	50 = ५०
25 = २५	100 = १००

Ministry of Education - Call Centre
For Suggestions Inquiries & Complaints



80051115



04-2176855



ccc.moe@moe.gov.ae



www.moe.gov.ae

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