

Kindergarten Mathematics Lesson Guide Printout

Learn from the Masters

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Lesson 1 Guide: Groups of Physical Objects Up to 2

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

- Show children between 0 to 2 objects, and have them call out the corresponding number without counting.
- Use a variety of objects that interest children such as coins, books, dinosaurs, action figures, cars, and stuffed animals.
- For example, hold up 2 books and ask children, 'How many books am I holding?'
- Practice this skill until children rapidly and easily call out the correct numbers, without counting.

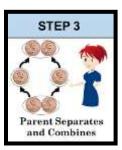


STEP 2

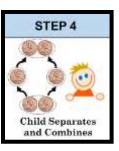
- Have children show you a specified number of objects without counting.
- Give each child 2 objects.
- Ask children to show you 0, 1, or 2 of the objects.
- For example, give 'Callie' 2 pennies. Say 'Callie, show me 2 pennies', and direct Callie to push 2 pennies into the center of the table.
- Practice this skill with a variety of objects until children rapidly and easily show the objects as directed, without counting.

STEP 2 Parent asks child to show # of objects.

- Combine and separate object groups.
- Form two groups of 1. Have children call out the number of objects in each group.
- Combine the groups into a large group of 2. Have children call out the number of objects in the large group.
- Practice this skill with a variety of objects until children rapidly and easily call out the correct numbers, without counting.



- Have children combine and separate object groups themselves.
- Direct children to separate a group of 2 objects into two groups of 1.
- Direct children to recombine the smaller groups into one big group of 2.
- Practice this skill with a variety of objects until children rapidly and easily separate and combine the objects as directed, without counting.



Lesson 2 Guide: Groups of Physical Objects Up to 3

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

- Show children between 0 to 3 objects, and have them call out the corresponding number without counting.
- Use a variety of objects that interest children such as coins, books, dinosaurs, action figures, cars, and stuffed animals.
- For example, hold up 3 books and ask children, 'How many books am I holding?'
- Practice this skill until children rapidly and easily call out the correct numbers, without counting.

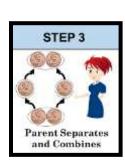


STEP 2

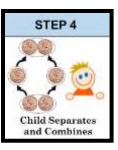
- Have children show you a specified number of objects without counting.
- Give each child 3 objects.
- Ask children to show you 0, 1, 2, or 3 of the objects.
- For example, give 'Everett' 3 pennies. Say 'Everett, show me 3 pennies', and direct Everett to push 3 pennies into the center of the table.
- Practice this skill with a variety of objects until children rapidly and easily show the objects as directed, without counting.

- Combine and separate object groups.
- Form three groups of 1. Have children call out the number of objects in each group.
- Combine the groups into a large group of 3. Have children call out the number of objects in the large group.
- Repeat the process for the following groups: (3 and 0) and (2 and 1).
- Practice this skill with a variety of objects until children rapidly and easily call out the correct numbers, without counting.





- Have children combine and separate object groups themselves.
- Direct children to separate a group of 3 objects into three groups of 1.
- Direct children to recombine the smaller groups into one big group of
 3.
- Repeat the process for the following groups: (3 and 0) and (2 and 1).
- Practice this skill with a variety of objects until children rapidly and easily separate and combine the objects as directed, without counting.



Lesson 3 Guide: Groups of Physical Objects Up to 4

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

- Show children between 0 to 4 objects, and have them call out the corresponding number without counting.
- Use a variety of objects that interest children such as coins, books, dinosaurs, action figures, cars, and stuffed animals.
- For example, hold up 4 books and ask children, 'How many books am I holding?'
- Practice this skill until children rapidly and easily call out the correct numbers, without counting.

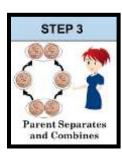
STEP 1 Parent asks, "How many do I have?"

STEP 2

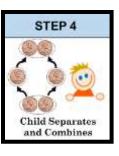
- Have children show you a specified number of objects without counting.
- Give each child 4 objects.
- Ask children to show you 0, 1, 2, 3, or 4 of the objects.
- For example, give 'Peyton' 4 pennies. Say 'Peyton, show me 4 pennies', and direct Peyton to push 4 pennies into the center of the table.
- Practice this skill with a variety of objects until children rapidly and easily show the objects as directed, without counting.

STEP 2 Parent asks child to show # of objects.

- Combine and separate object groups.
- Form four groups of 1. Have children call out the number of objects in each group.
- Combine the groups into a large group of 4. Have children call out the number of objects in the large group.
- Repeat the process for the following groups: (4 and 0), (3 and 1), and (2 and 2).
- Practice this skill with a variety of objects until children rapidly and easily call out the correct numbers, without counting.



- Have children combine and separate object groups themselves.
- Direct children to separate a group of 4 objects into four groups of 1.
- Direct children to recombine the smaller groups into one big group of 4.
- Repeat the process for the following groups: (4 and 0), (3 and 1), and (2 and 2).
- Practice this skill with a variety of objects until children rapidly and easily separate and combine the objects as directed, without counting.



Lesson 4 Guide: Groups of Physical Objects Up to 5

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

- Show children between 0 to 5 objects, and have them call out the corresponding number without counting.
- Use a variety of objects that interest children such as coins, books, dinosaurs, action figures, cars, and stuffed animals.
- For example, hold up 5 books and ask children, 'How many books am I holding?'
- Practice this skill until children rapidly and easily call out the correct numbers, without counting.

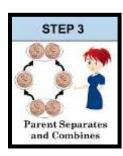
STEP 1 Parent asks, "How many do I have?"

STEP 2

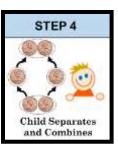
- Have children show you a specified number of objects without counting.
- Give each child 5 objects.
- Ask children to show you 0, 1, 2, 3, 4, or 5 of the objects.
- For example, give 'Chris' 5 pennies. Say 'Chris, show me 5 pennies', and direct Chris to push 5 pennies into the center of the table.
- Practice this skill with a variety of objects until children rapidly and easily show the objects as directed, without counting.

STEP 2 Parent asks child to show # of objects.

- Combine and separate object groups.
- Form five groups of 1. Have children call out the number of objects in each group.
- Combine the groups into a large group of 5. Have children call out the number of objects in the large group.
- Repeat the process for the following groups: (5 and 0), (4 and 1), and (2 and 3).
- Practice this skill with a variety of objects until children rapidly and easily call out the correct numbers, without counting.



- Have children combine and separate object groups themselves.
- Direct children to separate a group of 5 objects into five groups of 1.
- Direct children to recombine the smaller groups into one big group of
 5.
- Repeat the process for the following groups: (5 and 0), (4 and 1), and (2 and 3).
- Practice this skill with a variety of objects until children rapidly and easily separate and combine the objects as directed, without counting.



Lesson 5 Guide: Groups of Physical Objects Up to 6

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

- Show children between 0 to 6 objects, and have them call out the corresponding number without counting.
- Use a variety of objects that interest children such as coins, books, dinosaurs, action figures, cars, and stuffed animals.
- For example, hold up 6 books and ask children, 'How many books am I holding?'
- Practice this skill until children rapidly and easily call out the correct numbers, without counting.

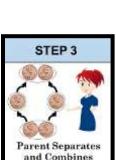


STEP 2

- Have children show you a specified number of objects without counting.
- Give each child 6 objects.
- Ask children to show you 0, 1, 2, 3, 4, 5, or 6 of the objects.
- For example, give 'Cassidy' 6 pennies. Say 'Cassidy, show me 6 pennies', and direct Cassidy to push 6 pennies into the center of the table.
- Practice this skill with a variety of objects until children rapidly and easily show the objects as directed, without counting.

STEP 3

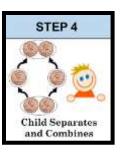
- Combine and separate object groups.
- Form six groups of 1. Have children call out the number of objects in each group.
- Combine the groups into a large group of 6. Have children call out the number of objects in the large group.
- Repeat the process for the following groups: (6 and 0), (5 and 1), (2 and 4), and (3 and 3).
- Practice this skill with a variety of objects until children rapidly and easily call out the correct numbers, without counting.



STEP 2

show # of objects.

- Have children combine and separate object groups themselves.
- Direct children to separate a group of 6 objects into six groups of 1.
- Direct children to recombine the smaller groups into one big group of
 6.
- Repeat the process for the following groups: (6 and 0), (5 and 1), (2 and 4), and (3 and 3).
- Practice this skill with a variety of objects until children rapidly and easily separate and combine the objects as directed, without counting.



Lesson 6 Guide: Groups of Physical Objects Up to 7

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

- Show children between 0 to 7 objects, and have them call out the corresponding number without counting.
- Use a variety of objects that interest children such as coins, books, dinosaurs, action figures, cars, and stuffed animals.
- For example, hold up 7 books and ask children, 'How many books am I holding?'
- Practice this skill until children rapidly and easily call out the correct numbers, without counting.

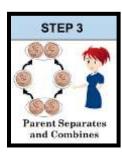
STEP 1 Parent asks, "How many do I have?"

STEP 2

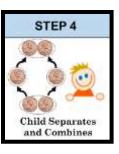
- Have children show you a specified number of objects without counting.
- Give each child 7 objects.
- Ask children to show you 0, 1, 2, 3, 4, 5, 6, or 7 of the objects.
- For example, give 'Tracy' 7 pennies. Say 'Tracy, show me 7 pennies', and direct Tracy to push 7 pennies into the center of the table.
- Practice this skill with a variety of objects until children rapidly and easily show the objects as directed, without counting.

STEP 2 Parent asks child to show # of objects.

- Combine and separate object groups.
- Form seven groups of 1. Have children call out the number of objects in each group.
- Combine the groups into a large group of 7. Have children call out the number of objects in the large group.
- Repeat the process for the following groups: (7 and 0), (6 and 1), (5 and 2), and (4 and 3).
- Practice this skill with a variety of objects until children rapidly and easily call out the correct numbers, without counting.



- Have children combine and separate object groups themselves.
- Direct children to separate a group of 7 objects into seven groups of 1.
- Direct children to recombine the smaller groups into one big group of 7.
- Repeat the process for the following groups: (7 and 0), (6 and 1), (5 and 2), and (4 and 3).
- Practice this skill with a variety of objects until children rapidly and easily separate and combine the objects as directed, without counting.



Lesson 7 Guide: Groups of Physical Objects Up to 8

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

- Show children between 0 to 8 objects, and have them call out the corresponding number without counting.
- Use a variety of objects that interest children such as coins, books, dinosaurs, action figures, cars, and stuffed animals.
- For example, hold up 8 books and ask children, 'How many books am I holding?'
- Practice this skill until children rapidly and easily call out the correct numbers, without counting.

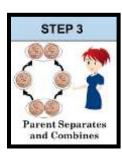


STEP 2

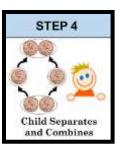
- Have children show you a specified number of objects without counting.
- Give each child 8 objects.
- Ask children to show you 0, 1, 2, 3, 4, 5, 6, 7, or 8 of the objects.
- For example, give 'Tracy' 8 pennies. Say 'Tracy, show me 8 pennies', and direct Tracy to push 8 pennies into the center of the table.
- Practice this skill with a variety of objects until children rapidly and easily show the objects as directed, without counting.

STEP 2 Parent asks child to show # of objects.

- Combine and separate object groups.
- Form eight groups of 1. Have children call out the number of objects in each group.
- Combine the groups into a large group of 8. Have children call out the number of objects in the large group.
- Repeat the process for the following groups: (8 and 0), (7 and 1), (6 and 2), (5 and 3), and (4 and 4).
- Practice this skill with a variety of objects until children rapidly and easily call out the correct numbers, without counting.



- Have children combine and separate object groups themselves.
- Direct children to separate a group of 8 objects into eight groups of 1.
- Direct children to recombine the smaller groups into one big group of 8.
- Repeat the process for the following groups: (8 and 0), (7 and 1), (6 and 2), (5 and 3), and (4 and 4).
- Practice this skill with a variety of objects until children rapidly and easily separate and combine the objects as directed, without counting.



Lesson 8 Guide: Groups of Physical Objects Up to 9

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

- Show children between 0 to 9 objects, and have them call out the corresponding number without counting.
- Use a variety of objects that interest children such as coins, books, dinosaurs, action figures, cars, and stuffed animals.
- For example, hold up 9 books and ask children, 'How many books am I holding?'
- Practice this skill until children rapidly and easily call out the correct numbers, without counting.

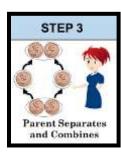
STEP 1 Parent asks, "How many do I have?"

STEP 2

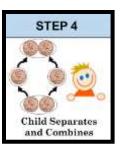
- Have children show you a specified number of objects without counting.
- Give each child 9 objects.
- Ask children to show you 0, 1, 2, 3, 4, 5, 6, 7, 8, or 9 of the objects.
- For example, give 'Diane' 9 pennies. Say 'Diane, show me 9 pennies', and direct Diane to push 9 pennies into the center of the table.
- Practice this skill with a variety of objects until children rapidly and easily show the objects as directed, without counting.

STEP 2 Parent asks child to show # of objects.

- Combine and separate object groups.
- Form nine groups of 1. Have children call out the number of objects in each group.
- Combine the groups into a large group of 9. Have children call out the number of objects in the large group.
- Repeat the process for the following groups: (9 and 0), (8 and 1), (7 and 2), (6 and 3), and (5 and 4).
- Practice this skill with a variety of objects until children rapidly and easily call out the correct numbers, without counting.



- Have children combine and separate object groups themselves.
- Direct children to separate a group of 9 objects into nine groups of 1.
- Direct children to recombine the smaller groups into one big group of
 9.
- Repeat the process for the following groups: (9 and 0), (8 and 1), (7 and 2), (6 and 3), and (5 and 4).
- Practice this skill with a variety of objects until children rapidly and easily separate and combine the objects as directed, without counting.



Lesson 9 Guide: Groups of Physical Objects Up to 10

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

- Show children between 0 to 10 objects, and have them call out the corresponding number without counting.
- Use a variety of objects that interest children such as coins, books, dinosaurs, action figures, cars, and stuffed animals.
- For example, hold up 10 books and ask children, 'How many books am I holding?'
- Practice this skill until children rapidly and easily call out the correct numbers, without counting.

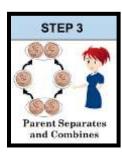


STEP 2

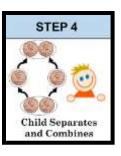
- Have children show you a specified number of objects without counting.
- Give each child 10 objects.
- Ask children to show you 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 of the objects.
- For example, give 'Kim' 10 pennies. Say 'Kim, show me 10 pennies', and direct Kim to push 10 pennies into the center of the table.
- Practice this skill with a variety of objects until children rapidly and easily show the objects as directed, without counting.

STEP 2 Parent asks child to show # of objects.

- Combine and separate object groups.
- Form ten groups of 1. Have children call out the number of objects in each group.
- Combine the groups into a large group of 10. Have children call out the number of objects in the large group.
- Repeat the process for the following groups: (10 and 0), (9 and 1), (8 and 2), (7 and 3), (6 and 4), and (5 and 5).
- Practice this skill with a variety of objects until children rapidly and easily call out the correct numbers, without counting.



- Have children combine and separate object groups themselves.
- Direct children to separate a group of 10 objects into ten groups of 1.
- Direct children to recombine the smaller groups into one big group of 10.
- Repeat the process for the following groups: (10 and 0), (9 and 1), (8 and 2), (7 and 3), (6 and 4), and (5 and 5).
- Practice this skill with a variety of objects until children rapidly and easily separate and combine the objects as directed, without counting.



Lesson 10 Guide: Groups of Imaginary Objects Up to 2

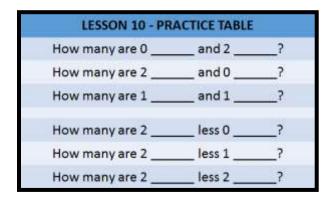
Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate groups of up to 2 objects they cannot currently see or touch, but can easily imagine.

- Ask children to call out the answer to questions such as, 'How many are 1 duck and 1 duck? How many are 2 ducks less 1 duck?'
- Master the operations in the table below (vary the objects and the order of questions):



Lesson 11 Guide: Groups of Imaginary Objects Up to 3

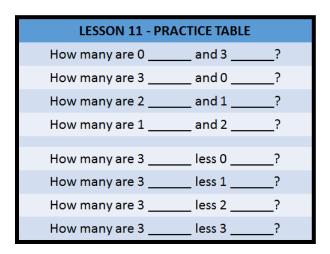
Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate groups of up to 3 objects they cannot currently see or touch, but can easily imagine.

- Ask children to call out the answer to questions such as, 'How many are 1 dinosaur and 2 dinosaurs? How many are 3 dinosaurs less 1 dinosaur?'
- Master the operations in the table below (vary the objects and the order of questions):



Lesson 12 Guide: Groups of Imaginary Objects Up to 4

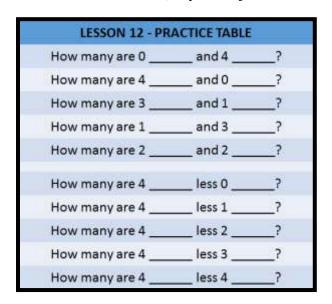
Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate groups of up to 4 objects they cannot currently see or touch, but can easily imagine.

- Ask children to call out the answer to questions such as, 'How many are 1 cheetah and 3 cheetahs? How many are 4 cheetahs less 1 cheetah?'
- Master the operations in the table below (vary the objects and the order of questions):



Lesson 13 Guide: Groups of Imaginary Objects Up to 5

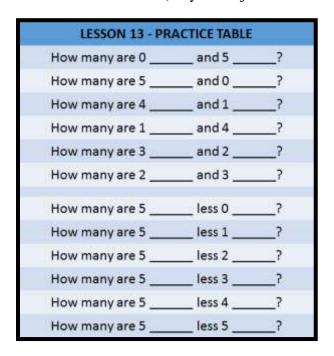
Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate groups of up to 5 objects they cannot currently see or touch, but can easily imagine.

- Ask children to call out the answer to questions such as, 'How many are 1 rocket ship and 4 rocket ships? How many are 5 rocket ships less 1 rocket ship?'
- Master the operations in the table below (vary the objects and the order of questions):



Lesson 14 Guide: Groups of Imaginary Objects Up to 6

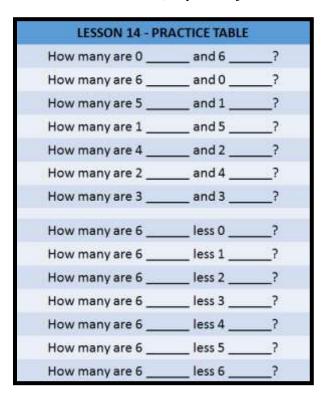
Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate groups of up to 6 objects they cannot currently see or touch, but can easily imagine.

- Ask children to call out the answer to questions such as, 'How many are 1 ballerina and 5 ballerinas? How many are 6 ballerinas less 1 ballerina?'
- Master the operations in the table below (vary the objects and the order of questions):



Lesson 15 Guide: Groups of Imaginary Objects Up to 7

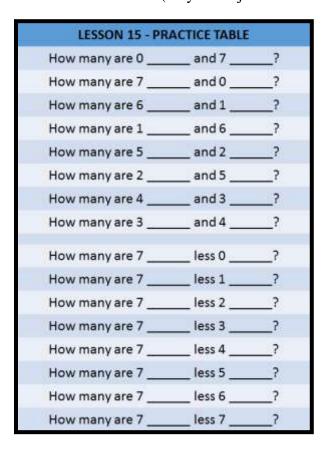
Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate groups of up to 7 objects they cannot currently see or touch, but can easily imagine.

- Ask children to call out the answer to questions such as, 'How many are 1 car and 6 cars? How many are 7 cars less 1 car?'
- Master the operations in the table below (vary the objects and the order of questions):



Lesson 16 Guide: Groups of Imaginary Objects Up to 8

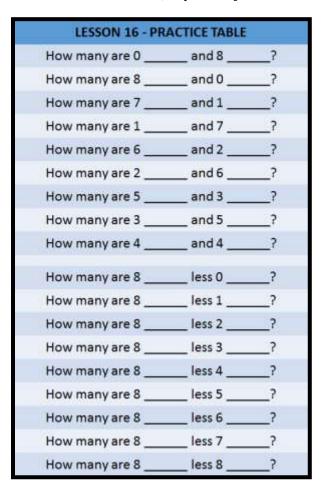
Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate groups of up to 8 objects they cannot currently see or touch, but can easily imagine.

- Ask children to call out the answer to questions such as, 'How many are 1 plane and 7 planes? How many are 8 planes less 1 plane?'
- Master the operations in the table below (vary the objects and the order of questions):



Lesson 17 Guide: Groups of Imaginary Objects Up to 9

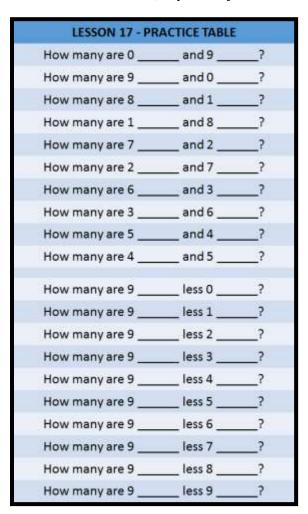
Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate groups of up to 9 objects they cannot currently see or touch, but can easily imagine.

- Ask children to call out the answer to questions such as, 'How many are 1 bunny and 8 bunnies? How many are 9 bunnies less 1 bunny?'
- Master the operations in the table below (vary the objects and the order of questions):



• Give numerous exercises on each number, with constant reviews, until children can perform each operation with great accuracy and rapidity.

Lesson 18 Guide: Groups of Imaginary Objects Up to 10

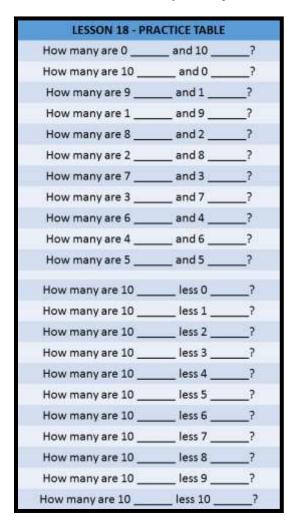
Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate groups of up to 10 objects they cannot currently see or touch, but can easily imagine.

- Ask children to call out the answer to questions such as, 'How many are 1 dragon and 9 dragons? How many are 10 dragons less 1 dragon?'
- Master the operations in the table below (vary the objects and the order of questions):



• Give numerous exercises on each number, with constant reviews, until children can perform each operation with great accuracy and rapidity.

Lesson 19 Guide: Mentally Add and Subtract Numbers Up to 2

Directions

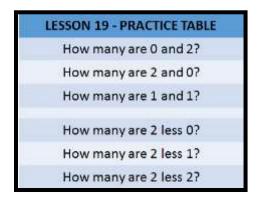
• In this phase, do not mention objects. Lessons must be entirely oral.

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate numbers up to 2.

- Ask children to call out the answer to questions such as, 'How many are 1 and 1? How many are 2 less 1?'
- Master the operations in the table below (vary the order of questions):



Lesson 20 Guide: Mentally Add and Subtract Numbers Up to 3

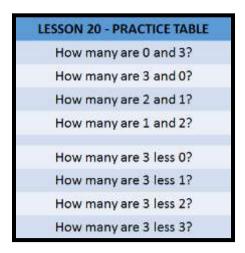
Directions

- In this phase, do not mention objects. Lessons must be entirely oral.
- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate numbers up to 3.

- Ask children to call out the answer to questions such as, 'How many are 2 and 1? How many are 3 less 1?'
- Master the operations in the table below (vary the order of questions):



Lesson 21 Guide: Mentally Add and Subtract Numbers Up to 4

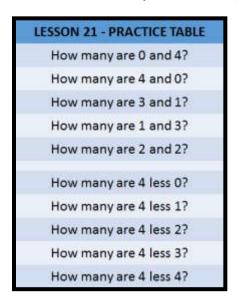
Directions

- In this phase, do not mention objects. Lessons must be entirely oral.
- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate numbers up to 4.

- Ask children to call out the answer to questions such as, 'How many are 3 and 1? How many are 4 less 1?'
- Master the operations in the table below (vary the order of questions):



Lesson 22 Guide: Mentally Add and Subtract Numbers Up to 5

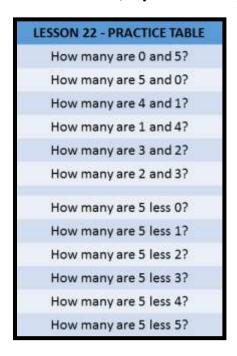
Directions

- In this phase, do not mention objects. Lessons must be entirely oral.
- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate numbers up to 5.

- Ask children to call out the answer to questions such as, 'How many are 4 and 1? How many are 5 less 1?'
- Master the operations in the table below (vary the order of questions):



Lesson 23 Guide: Mentally Add and Subtract Numbers Up to 6

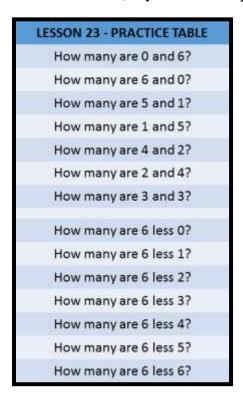
Directions

- In this phase, do not mention objects. Lessons must be entirely oral.
- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate numbers up to 6.

- Ask children to call out the answer to questions such as, 'How many are 5 and 1? How many are 6 less 1?'
- Master the operations in the table below (vary the order of questions):



Lesson 24 Guide: Mentally Add and Subtract Numbers Up to 7

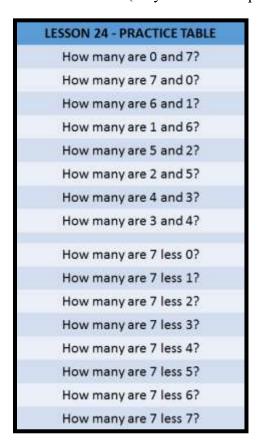
Directions

- In this phase, do not mention objects. Lessons must be entirely oral.
- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate numbers up to 7.

- Ask children to call out the answer to questions such as, 'How many are 6 and 1? How many are 7 less 1?'
- Master the operations in the table below (vary the order of questions):



Lesson 25 Guide: Mentally Add and Subtract Numbers Up to 8

Directions

- In this phase, do not mention objects. Lessons must be entirely oral.
- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate numbers up to 8.

- Ask children to call out the answer to questions such as, 'How many are 7 and 1? How many are 8 less 1?'
- Master the operations in the table below (vary the order of questions):

LESSON 25 - PRACTICE TABLE
How many are 0 and 8?
How many are 8 and 0?
How many are 7 and 1?
How many are 1 and 7?
How many are 6 and 2?
How many are 2 and 6?
How many are 5 and 3?
How many are 3 and 5?
How many are 4 and 4?
How many are 8 less 0?
How many are 8 less 1?
How many are 8 less 2?
How many are 8 less 3?
How many are 8 less 4?
How many are 8 less 5?
How many are 8 less 6?
How many are 8 less 7?
How many are 8 less 8?

Lesson 26 Guide: Mentally Add and Subtract Numbers Up to 9

Directions

- In this phase, do not mention objects. Lessons must be entirely oral.
- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate numbers up to 9.

- Ask children to call out the answer to questions such as, 'How many are 8 and 1? How many are 9 less 1?'
- Master the operations in the table below (vary the order of questions):

LESSON 26 - PRACTICE TABLE
How many are 0 and 9?
How many are 9 and 0?
How many are 8 and 1?
How many are 1 and 8?
How many are 7 and 2?
How many are 2 and 7?
How many are 6 and 3?
How many are 3 and 6?
How many are 5 and 4?
How many are 4 and 5?
How many are 9 less 0?
How many are 9 less 1?
How many are 9 less 2?
How many are 9 less 3?
How many are 9 less 4?
How many are 9 less 5?
How many are 9 less 6?
How many are 9 less 7?
How many are 9 less 8?
How many are 9 less 9?

Lesson 27 Guide: Mentally Add and Subtract Numbers Up to 10

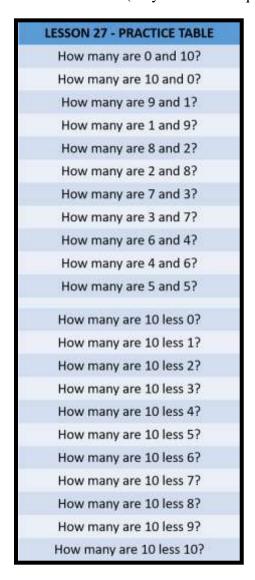
Directions

- In this phase, do not mention objects. Lessons must be entirely oral.
- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

Teach children to mentally combine and separate numbers up to 10.

- Ask children to call out the answer to questions such as, 'How many are 9 and 1? How many are 10 less 1?'
- Master the operations in the table below (vary the order of questions):



Lesson 28 Guide: Recite and Write Figures and Words for 0-10

Directions

- Teach children the symbols and words for 0-10.
- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Display to children the figures and corresponding words for 0-10 as follows:

LESSON 28	
0	Zero
1	One
2	Two
3	Three
4	Four
5	Five
6	Six
7	Seven
8	Eight
9	Nine
10	Ten

STEP 2

• Point to each value in the table and have children recite each number and word.

STEP 3

- Have children copy each number and word on paper.
- Repeat this lesson every day until children can easily recite and write the mathematical figures and words.

Lesson 29 Guide: Write Figures and Words for Equation Signs

Directions

- Teach children the symbols and words for the plus (+) sign, the minus (-) sign, and the equality (=) symbol.
- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Display to children the symbols and corresponding words as follows:



STEP 2

• Point to each value in the table and have children recite each symbol and word.

STEP 3

- Have children copy each symbol and word on paper.
- Repeat this lesson every day until children can easily recite and write the mathematical symbols and words.

Lesson 30 Guide: Write Addition Problems of Up to 2

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

- Explain that '+' is to be read as 'plus' and that 2 + 0 = 2' is to be read as 'two plus zero equals two.'
- Repeat this lesson every day until children can easily recite and write the equations.

2 and 0 are 2 2 plus 0 is 2 2 + 0 = 2

0 and 2 are 2 0 plus 2 is 2 0 + 2 = 2

1 and 1 are 2 1 plus 1 is 2 1 + 1 = 2

Lesson 31 Guide: Write Addition Problems of Up to 3

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

• Repeat this lesson every day until children can easily recite and write the equations.

3 and 0 are 3 3 plus 0 is 3 3 + 0 = 3

0 and 3 are 3 0 plus 3 is 3 0 + 3 = 3

2 and 1 are 3 2 plus 1 is 3 2 + 1 = 3

1 and 2 are 3 1 plus 2 is 3 1 + 2 = 3

Lesson 32 Guide: Write Addition Problems of Up to 4

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

• Repeat this lesson every day until children can easily recite and write the equations.

4 and 0 are 4 4 plus 0 is 4 4 + 0 = 4

0 and 4 are 4 0 plus 4 is 4 0 + 4 = 4

3 and 1 are 4 3 plus 1 is 4 3 + 1 = 4

1 and 3 are 4 1 plus 3 is 4 1 + 3 = 4

2 and 2 are 4 2 plus 2 is 4 2 + 2 = 4

Lesson 33 Guide: Write Addition Problems of Up to 5

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

• Repeat this lesson every day until children can easily recite and write the equations.

5 and 0 are 5 5 plus 0 is 5 5 + 0 = 5

0 and 5 are 5 0 plus 5 is 5 0 + 5 = 5

4 and 1 are 5 4 plus 1 is 5 4 + 1 = 5

1 and 4 are 5 1 plus 4 is 5 1 + 4 = 5

2 and 3 are 5 2 plus 3 is 5 2 + 3 = 5

3 and 2 are 5 3 plus 2 is 5 3+2=5

Lesson 34 Guide: Write Addition Problems of Up to 6

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

6 and 0 are 6	4 and 2 are 6
6 plus 0 is 6	4 plus 2 is 6
6 + 0 = 6	4 + 2 = 6
0 and 6 are 6	2 and 4 are 6
0 plus 6 is 6	2 plus 4 is 6
0 + 6 = 6	2 + 4 = 6
5 and 1 are 6	3 and 3 are 6
5 plus 1 is 6	3 plus 3 is 6
5 + 1 = 6	3 + 3 = 6
1 and 5 are 6 1 plus 5 is 6 1 + 5 = 6	

Lesson 35 Guide: Write Addition Problems of Up to 7

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

7 and 0 are 7	5 and 2 are 7
7 plus 0 is 7	5 plus 2 is 7
7 + 0 = 7	5 + 2 = 7
0 and 7 are 7	2 and 5 are 7
0 plus 7 is 7	2 plus 5 is 7
0 + 7 = 7	2 + 5 = 7
6 and 1 are 7	4 and 3 are 7
6 plus 1 is 7	4 plus 3 is 7
6 + 1 = 7	4 + 3 = 7
1 and 6 are 7	3 and 4 are 7
1 plus 6 is 7	3 plus 4 is 7
1 + 6 = 7	3 + 4 = 7

Lesson 36 Guide: Write Addition Problems of Up to 8

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

6 + 2 = 8

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

8 and 0 are 8	2 and 6 are 8
8 plus 0 is 8	2 plus 6 is 8
8 + 0 = 8	2 + 6 = 8
0 and 8 are 8	5 and 3 are 8
0 plus 8 is 8	5 plus 3 is 8
0 + 8 = 8	5 + 3 = 8
7 and 1 are 8 7 plus 1 is 8 7 + 1 = 8	3 and 5 are 8 3 plus 5 is 8 3 + 5 = 8
1 and 7 are 8	4 and 4 are 8
1 plus 7 is 8	4 plus 4 is 8
1 + 7 = 8	4 + 4 = 8
6 and 2 are 8 6 plus 2 is 8	

Lesson 37 Guide: Write Addition Problems of Up to 9

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

9 and 0 are 9	2 and 7 are 9
9 plus 0 is 9	2 plus 7 is 9
9 + 0 = 9	2 + 7 = 9
0 and 9 are 9	6 and 3 are 9
0 plus 9 is 9	6 plus 3 is 9
0 + 9 = 9	6 + 3 = 9
8 and 1 are 9	3 and 6 are 9
8 plus 1 is 9	3 plus 6 is 9
8 + 1 = 9	3 + 6 = 9
1 and 8 are 9	5 and 4 are 9
1 plus 8 is 9	5 plus 4 is 9
1 + 8 = 9	5 + 4 = 9
7 and 2 are 9 7 plus 2 is 9 7 + 2 = 9	4 and 5 are 9 4 plus 5 is 9 4 + 5 = 9

Lesson 38 Guide: Write Addition Problems of Up to 10

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

10 and 0 are 10	7 and 3 are 10
10 plus 0 is 10	7 plus 3 is 10
10 + 0 = 10	7 + 3 = 10
0 and 10 are 10	3 and 7 are 10
0 plus 10 is 10	3 plus 7 is 10
0 + 10 = 10	3 + 7 = 10
9 and 1 are 10	6 and 4 are 10
9 plus 1 is 10	6 plus 4 is 10
9 + 1 = 10	6 + 4 = 10
1 and 9 are 10	4 and 6 are 10
1 plus 9 is 10	4 plus 6 is 10
1 + 9 = 10	4 + 6 = 10
8 and 2 are 9	5 and 5 are 10
8 plus 2 is 9	5 plus 5 is 10
8 + 2 = 9	5 + 5 = 10
2 and 8 are 10 2 plus 8 is 10 2 + 8 = 10	

Lesson 39 Guide: Write Subtraction Problems of Up to 2

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

- Explain that '-' is to be read as minus and that '2 1 = 1' is to be read as 'two minus one equals one.'
- Repeat this lesson every day until children can easily recite and write the equations.

2 less 0 is 2
2 minus 0 equals 2
$$2 - 0 = 2$$

2 less 2 is 0
2 minus 2 equals 0
$$2 - 2 = 0$$

Lesson 40 Guide: Write Subtraction Problems of Up to 3

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

3 less 0 is 3
3 minus 0 equals 3
$$3 - 0 = 3$$

3 less 3 is 0
3 minus 3 equals 0
$$3 - 3 = 0$$

Lesson 41 Guide: Write Subtraction Problems of Up to 4

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

Lesson 42 Guide: Write Subtraction Problems of Up to 5

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

Lesson 43 Guide: Write Subtraction Problems of Up to 6

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

6 less 0 is 6
 6 less 4 is 2

 6 minus 0 equals 6
 6 minus 4 equals 2

$$6 - 0 = 6$$
 $6 - 4 = 2$

 6 less 1 is 5
 6 less 5 is 1

 6 minus 1 equals 5
 6 minus 5 equals 1

 $6 - 5 = 1$
 $6 - 5 = 1$

 6 less 2 is 4
 6 less 6 is 0

 6 minus 2 equals 4
 6 minus 6 equals 0

 $6 - 6 = 0$
 $6 - 6 = 0$

Lesson 44 Guide: Write Subtraction Problems of Up to 7

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

$$7 \text{ less } 0 \text{ is } 7$$
 $7 - 4 = 3$
 $7 \text{ minus } 0 \text{ equals } 7$
 $7 \text{ less } 5 \text{ is } 2$
 $7 \text{ less } 1 \text{ is } 6$
 $7 \text{ less } 6 \text{ is } 1$
 $7 \text{ minus } 1 \text{ equals } 6$
 $7 \text{ less } 6 \text{ is } 1$
 $7 \text{ less } 2 \text{ is } 5$
 $7 \text{ less } 6 \text{ is } 1$
 $7 \text{ less } 2 \text{ is } 5$
 $7 \text{ less } 7 \text{ is } 0$
 $7 \text{ less } 3 \text{ is } 4$
 $7 \text{ less } 7 \text{ is } 0$
 $7 \text{ less } 3 \text{ is } 4$
 $7 \text{ less } 7 \text{ is } 0$
 $7 \text{ less } 4 \text{ is } 3$
 $7 \text{ minus } 4 \text{ equals } 3$

Lesson 45 Guide: Write Subtraction Problems of Up to 8

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

8 less 4 is 4 8 minus 4 equals 4 8 - 4 = 4

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

Lesson 46 Guide: Write Subtraction Problems of Up to 9

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

9 less 0 is 9	9 less 5 is 4
9 minus 0 equals 9	9 minus 5 equals 4
9 - 0 = 9	9 - 5 = 4
9 less 1 is 8	9 less 6 is 3
9 minus 1 equals 8	9 minus 6 equals 3
9 - 1 = 8	9 - 6 = 3
9 less 2 is 7	9 less 7 is 2
9 minus 2 equals 7	9 minus 7 equals 2
9 - 2 = 7	9 - 7 = 2
9 less 3 is 6	9 less 8 is 1
9 minus 3 equals 6	9 minus 8 equals 1
9 - 3 = 6	9 - 8 = 1
9 less 4 is 5	9 less 9 is 0
9 minus 4 equals 5	9 minus 9 equals 0
9 - 4 = 5	9 - 9 = 0

Lesson 47 Guide: Write Subtraction Problems of Up to 10

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

10 minus 5 equals 5 10 - 5 = 5

Steps

STEP 1

• Have children recite each equation listed below.

STEP 2

• Have children copy on paper each equation listed below.

EQUATIONS

Lesson 48 Guide: Solve Equations Involving Numbers Up to 2

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite and solve each equation listed below.

STEP 2

• Have children copy on paper the equations listed below and their solutions.

EQUATIONS

• Repeat this lesson every day until children can easily recite and write the equations and their solutions.

1+1=; therefore 2-1=

Lesson 49 Guide: Solve Equations Involving Numbers Up to 3

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite and solve each equation listed below.

STEP 2

• Have children copy on paper the equations listed below and their solutions.

EQUATIONS

$$2+1$$
 or $1+2=$; therefore $3-1=$; $3-2=$

Lesson 50 Guide: Solve Equations Involving Numbers Up to 4

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite and solve each equation listed below.

STEP 2

• Have children copy on paper the equations listed below and their solutions.

EQUATIONS

Lesson 51 Guide: Solve Equations Involving Numbers Up to 5

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite and solve each equation listed below.

STEP 2

• Have children copy on paper the equations listed below and their solutions.

EQUATIONS

```
4+1 or 1+4=; therefore 5-1=; 5-4=
3+2 or 2+3=; therefore 5-2=; 5-3=
```

Lesson 52 Guide: Solve Equations Involving Numbers Up to 6

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite and solve each equation listed below.

STEP 2

• Have children copy on paper the equations listed below and their solutions.

EQUATIONS

Lesson 53 Guide: Solve Equations Involving Numbers Up to 7

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite and solve each equation listed below.

STEP 2

• Have children copy on paper the equations listed below and their solutions.

EQUATIONS

```
6+1 or 1+6=; therefore 7-1=; 7-6=
5+2 or 2+5=; therefore 7-2=; 7-5=
4+3 or 3+4=; therefore 7-3=; 7-4=
```

Lesson 54 Guide: Solve Equations Involving Numbers Up to 8

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite and solve each equation listed below.

STEP 2

• Have children copy on paper the equations listed below and their solutions.

EQUATIONS

```
7+1 or 1+7=; therefore 8-1=; 8-7=
6+2 or 2+6=; therefore 8-2=; 8-6=
5+3 or 3+5=; therefore 8-3=; 8-5=
4+4=; therefore 8-4=
```

Lesson 55 Guide: Solve Equations Involving Numbers Up to 9

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite and solve each equation listed below.

STEP 2

• Have children copy on paper the equations listed below and their solutions.

EQUATIONS

```
8+1 or 1+8=; therefore 9-1=; 9-8=
7+2 or 2+7=; therefore 9-2=; 9-7=
6+3 or 3+6=; therefore 9-3=; 9-6=
5+4 or 4+5=; therefore 9-4=; 9-5=
```

Lesson 56 Guide: Solve Equations Involving Numbers Up to 10

Directions

- Follow the step-by-step instructions below to teach the lesson.
- Progress to the next lesson when children master the current lesson.
- Value mastery over speed of progression.

Steps

STEP 1

• Have children recite and solve each equation listed below.

STEP 2

• Have children copy on paper the equations listed below and their solutions.

EQUATIONS

```
9+1 or 1+9=; therefore 10-1=; 10-9=
8+2 or 2+8=; therefore 10-2=; 10-8=
7+3 or 3+7=; therefore 10-3=; 10-7=
6+4 or 4+6=; therefore 10-4=; 10-6=
5+5=; therefore 10-5=
```