

Kindergarten: Number Stories

Number Stories is a lesson structure in the Success Academy conceptual math curriculum. It is based on the [Cognitively Guided Instruction](#) model. Number Stories teaches students to unpack and solve complex, unfamiliar problems to develop mathematical thinking and problem-solving skills, explain their thinking and construct mathematical arguments, build an understanding of grade-level conjectures and concepts, and apply concepts, strategies, and models learned in math and mini-lessons to novel contexts.

In Grades K-2, students work to solve a problem during Number Stories. The Number Stories block happens 3-4 times per week for approximately 40 minutes.

1 There are 7 brown pencils and 19 yellow pencils in the cup. How many pencils are there altogether?

- Comprehension Question: Are there more or less than 19 pencils in the cup?
- Type: PPW-WU
- Level: I
- Answer: 26 pencils
- Number Sentence to Match the Story: $7+19=_$

2 Jaylen had 14 Legos. He gave 5 Legos to his friend. How many Legos does Jaylen have now?

- Comprehension Question: Does Jaylen have more or less than 14 Legos?
- Type: SRU
- Level: I
- Answer: 9 Legos
- Number Sentence to Match the Story: $14-5=_$

3 Tyler had 13 blocks. He put 9 blocks away. How many blocks does Tyler have now?

- Comprehension Question: Does Tyler have more or less than 13 blocks?
- Type: SRU
- Level: I
- Answer: 4 blocks
- Number Sentence to Match the Story: $13-9=_$

4 I have 7 cousins. Tyler has 3 cousins. How many more cousins do I have than Tyler?

- Comprehension Question: CDU problems do not have a comprehension question. But you can ask: What are you imagining? What is happening?
- Type: CDU
- Level: II
- Answer: 4 more cousins
- Number Sentence to Match the Story: $7-3=_$

5 Sydney has 9 crayons. Mekhi has 5 crayons. How many more crayons does Sydney have than Mekhi?

- Comprehension Question: CDU problems do not have a comprehension question. But you can ask: What are you imagining? What is happening?
- Type: CDU
- Level: II
- Answer: 4 more crayons
- Number Sentence to Match the Story: $9-5=_$

6 Alyssa had 7 crayons. Her father gave her 18 more. How many crayons does Alyssa have now?

- Comprehension Question: Does Alyssa have more or less than 18 crayons?
- Type: JRU
- Level: I
- Answer: 25 crayons
- Number Sentence to Match the Story: $7+18=_$

7 Jaylin had 9 M&M's. His brother gave him 17 more M&Ms. How many M&Ms does Jaylin have now?

- Comprehension Question: Does Jaylin have more or less than 17 M&Ms?
- Type: JRU
- Level: I
- Answer: 26 M&Ms
- Number Sentence to Match the Story: $9+17=_$

8 There are 3 boxes of markers. Each box has 4 markers in it. How many markers are there?

- Comprehension Question: Are there more or less than 4 markers?
- Type: M
- Level: II
- Answer: 12 markers
- Number Sentence to Match the Story: Scholars are NOT expected to write this number sentence.
- NOTE: Scholars are expected to write the number sentence that matches their work.

9 Ms. Ellis has 4 boxes of paintbrushes. There are 4 paintbrushes in each box. How many paintbrushes does Ms. Ellis have?

- Comprehension Question: Does Ms. Ellis have more or less than 4 paintbrushes?
- Type: M
- Level: II
- Answer: 16 paintbrushes
- Number Sentence to Match the Story: Scholars are NOT expected to write this number sentence.
- NOTE: Scholars are expected to write the number sentence that matches their work.

10 Jacob had 12 stickers. He gave 5 stickers away. How many stickers did Jacob have left?

- Comprehension Question: Did Jacob have more or less than 12 stickers left?
- Type: SRU
- Level: I
- Answer: 7 stickers
- Number Sentence to Match the Story: $12-5=_$

11 There are 14 trays on the table. 8 scholars threw their trays away. How many trays are left on the table?

- Comprehension Question: Are there more or less than 14 trays left on the table?
- Type: SRU
- Level: I
- Answer: 6 trays
- Number Sentence to Match the Story: $14-8=_$

12 I have 8 hats. Ms. Henry has 6 hats. How many more hats do I have than Ms. Henry?

- Comprehension Question: CDU problems do not have a comprehension question. But you can ask: What are you imagining? What is happening?
- Type: CDU
- Level: II
- Answer: 2 more hats
- Number Sentence to Match the Story: $8-6=_$

13 Moustafa has 11 markers. Nia has 4 markers. How many more markers does Moustafa have than Nia?

- Comprehension Question: CDU problems do not have a comprehension question. But you can ask: What are you imagining? What is happening?
- Type: CDU
- Level: II
- Answer: 7 more markers
- Number Sentence to Match the Story: $11-4=_$

14 There are 8 brown dogs and 16 black dogs at the park. How many dogs are at the park?

- Comprehension Question: Are there more or less than 16 dogs at the park?
- Type: PPW-WU
- Level: I
- Answer: 24 dogs
- Number Sentence to Match the Story: $8+16=_$

15 There are 8 big dogs in the dog park and 13 little dogs in the dog park. How many dogs are in the dog park?

- Comprehension Question: Are there more or less than 13 dogs in the dog park?
- Type: PPW-WU
- Level: I
- Answer: 21 dogs
- Number Sentence to Match the Story: $8+13=_$

16 I have 3 bags of cookies. There are 5 cookies in each bag. How many cookies do I have?

- Comprehension Question: Do I have more or less than 5 cookies?
- Type: M
- Level: II
- Answer: 15 cookies
- Number Sentence to Match the Story: Scholars are NOT expected to write this number sentence.
- NOTE: Scholars are expected to write the number sentence that matches their work.

17 My aunt bought 3 cartons of eggs. Each carton had 6 eggs in it. How many eggs did my aunt buy?

- Comprehension Question: Did my aunt buy more or less than 6 eggs?
- Type: M
- Level: II
- Answer: 18 eggs
- Number Sentence to Match the Story: Scholars are NOT expected to write this number sentence.
- NOTE: Scholars are expected to write the number sentence that matches their work.

18 There are 15 books in the bin. Scholars took 9 books out of the bin. How many books are left in the bin?

- Comprehension Question: Are there more or less than 15 books in the bin?
- Type: SRU
- Level: I
- Answer: 6 books
- Number Sentence to Match the Story: $15-9=_$

19 There are 9 crayons and 18 pencils in the bin. How many writing utensils are in the bin?

- Comprehension Question: Are there more or less than 18 writing utensils in the bin?
- Type: PPW-WU
- Level: I
- Answer: 27 writing utensils
- Number Sentence to Match the Story: $9+18=_$

20 Michael collected 6 Silly Bandz. For his birthday he received 11 Silly Bandz from his friends. His family gave him 5 more Silly Bandz. How many Silly Bandz does Michael have?

- Comprehension Question: Does Michael have more or less than 11 Silly Bandz?
- Type: Complex JRU
- Level: I
- Answer: 22 Silly Bandz
- Number Sentence to Match the Story: $6+11+5=_$

21 Oliver had 22 pebbles. Then he dropped 13 of them on the ground. How many pebbles does Oliver have now?

- Comprehension Question: Does Oliver have more or less than 22 pebbles?
- Type: SRU
- Level: I
- Answer: 9 pebbles
- Number Sentence to Match the Story: $22-13=_$

22 I have 6 Animal Crackers to give to my friends. I gave 3 Animal Crackers to each of my friends. How many friends received Animal Crackers?

- Comprehension Question: Will more or less than 6 friends receive Animal Crackers?
- Type: MD
- Level: II
- Answer: 2 friends
- Number Sentence to Match the Story: Scholars are NOT expected to write this number sentence.
- NOTE: Scholars are expected to write the number sentence that matches their work.

23 Ms. Walsh has 9 pencils. She puts all of her pencils into cups. Each cup holds 3 pencils. How many cups of pencils does she have?

- Comprehension Question: Does Ms. Walsh have more or less than 9 cups of pencils?
- Type: MD
- Level: II
- Answer: 3 cups
- Number Sentence to Match the Story: Scholars are NOT expected to write this number sentence.
- NOTE: Scholars are expected to write the number sentence that matches their work.

24 There are 12 cats on the rug. There are 7 dogs on the rug. How many more cats than dogs are on the rug?

- Comprehension Question: CDU problems do not have a comprehension question. But you can ask: What are you imagining? What is happening?
- Type: CDU
- Level: II
- Answer: 5 cats
- Number Sentence to Match the Story: $12-7=_$

25 Alioune has 14 blocks. Josiah has 6 blocks. How many more blocks does Alioune have than Josiah?

- Comprehension Question: CDU problems do not have a comprehension question. But you can ask: What are you imagining? What is happening?
- Type: CDU
- Level: II
- Answer: 8 blocks
- Number Sentence to Match the Story: $14-6=_$

26 Madison had 20 marbles. 8 marbles fell out of her bag. How many marbles are left in her bag?

- Comprehension Question: Does Madison have more or less than 20 marbles left in her bag?
- Type: SRU
- Level: I
- Answer: 12 marbles
- Number Sentence to Match the Story: $20-8=_$

27 Liz had 15 crayons. She bought 24 more crayons. How many crayons does Liz have now?

- Comprehension Question: Does Liz have more or less than 24 crayons?
- Type: JRU
- Level: I
- Answer: 39 crayons
- Number Sentence to Match the Story: $15+24=$ __

28 Julio had 19 toy cars. He got 16 more toy cars from his mom and 15 more toy cars from his dad. How many toy cars does Julio have now?

- Comprehension Question: Does Julio have more or less than 19 toys?
- Type: Complex JRU
- Level: I

- Answer: 50 toys
- Number Sentence to Match the Story: $19+16+15=$ __

29 There are 18 muffins that I give to some scholars. I give each scholar 2 muffins. How many scholars received muffins?

- Comprehension Question: Will more or less than 18 scholars receive muffins?
- Type: MD
- Level: II
- Answer: 9 scholars
- Number Sentence to Match the Story: Scholars are NOT expected to write this number sentence.
- *NOTE: Scholars are expected to write the number sentence that matches their work. For example, $18-2-2-2-2-2-2-2-2=0$.*

30 Ms. Palermo has 21 markers that she wants to pack in boxes. 3 markers fit in each box. How many boxes of markers can she pack?

- Comprehension Question: Does Ms. Palermo have more or less than 21 boxes of markers?
- Type: MD
- Level: II
- Answer: 7 boxes
- Number Sentence to Match the Story: Scholars are NOT expected to write this number sentence.
- *NOTE: Scholars are expected to write the number sentence that matches their work. For example, $3+3+3+3+3+3+3=21$.*

31 Keagan had 21 pretzels in his bag. He ate some of them for snack. Now he has 16 pretzels in his bag. How many pretzels did Keagan eat for snack?

- Comprehension Question: Did Keagan eat more or less than 21 pretzels for snack?
- Type: SCU
- Level: III
- Answer: 5 pretzels
- Number Sentence to Match the Story: $21-_=16$

32 Jamar had 22 tiles in his counting jar. He took some of the tiles out of the jar. Now he has 13 tiles left in his jar. How many tiles did Jamar take out?

- Comprehension Question: Did Jamar take more or less than 22 tiles out of the jar?
- Type: SCU
- Level: III
- Answer: 9 tiles
- Number Sentence to Match the Story: $22-_=13$

33 Ms. Kotel has 16 muffins that she put into 8 boxes. She put the same number of muffins into each box. How many muffins are in each box?

- Comprehension Question: Does Ms. Kotel put more or less than 16 muffins in each box?
- Type: PD
- Level: II
- Answer: 2 muffins
- Number Sentence to Match the Story: Scholars are NOT expected to write this number sentence.
- *NOTE: Scholars are expected to write the number sentence that matches their work. For example, $16-8-8=0$.*

34 I have 18 pepperonis. I put the pepperonis onto 3 pizzas with the same number of pepperonis on each pizza. How many pepperonis are on each pizza?

- Comprehension Question: Are there more or less than 18 pepperonis on each pizza?
- Type: PD
- Level: II
- Answer: 6 pepperonis
- Number Sentence to Match the Story: Scholars are NOT expected to write this number sentence.
- *NOTE: Scholars are expected to write the number sentence that matches their work. For example, $3+3+3+3+3+3=18$.*

35 There are 39 hats at the store. 18 hats are brown and the rest are red. How many hats are red?

- Comprehension Question: Are there more or less than 39 red hats?
- Type: PPW-PU
- Level: III
- Answer: 21 red hats
- Number Sentence to Match the Story: $18+_=39$ or $_{+}18=39$ or $39=18+_{}$

36 Mr. Benanti had a bag of 23 balls for sports. 7 were footballs and the rest were basketballs. How many basketballs did Mr. Benanti have?

- Comprehension Question: Did Mr. Benanti have more or less than 23 basketballs?
- Type: PPW-PU
- Level: III
- Answer: 16 basketballs
- Number Sentence to Match the Story: $7+_=23$ or $_{+}7=23$

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