New York State Common Core



## **Mathematics Curriculum**



**GRADE K • MODULE 4** 

# Answer Key GRADE K • MODULE 4

Number Pairs, Addition, and Subtraction to 10







#### **Problem Set**

2 light butterflies drawn; 3 dark butterflies drawn; 5 butterflies drawn in all

1 light butterfly drawn; 3 dark butterflies drawn; 4 butterflies drawn in all

2; 3

2 circles drawn in one part; 3 circles drawn in the other part

#### Homework

1 blue fish drawn; 2 orange fish drawn 3 fish drawn in all; 1, 2, 3

5 squares drawn; 3 squares drawn; two squares drawn; 3, 2, 5



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#### **Problem Set**

4 squares colored gray; 1 square colored black; squares drawn in number bond

Fingers of left hand colored gray; thumb colored black

4; 1; 5

#### Homework

Answers will vary.

Answers will vary.



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#### Sprint

5	5
4	4
3	3
2	2
1	1
0	0
1	4
2	3
3	2
4	0

#### **Problem Set**

3 shaded smiley faces drawn; 2 unshaded smiley faces drawn; 2, 3

1 triangle drawn; two squares drawn; 1 triangle and two squares drawn; 1, 2, 3

5; 3; 2

Answers will vary.

#### Homework

3

1;4

2; 3; 5

5; 1; 4

Answers will vary.





#### **Fluency Template**

Lines traced to make 4

#### **Problem Set**

Answers will vary to make 5.

Answers will vary to make 4.

Answers will vary.

#### Homework

2, 1; 3

4, 3, 1; 3, 1

Answers will vary.



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#### **Fluency Template**

Lines drawn to make a number bond for 5 Lines drawn to make a number bond for 5

Lines drawn to make a number bond for 5

Lines drawn to make a number bond for 5

#### **Problem Set**

3; 5

Answers will vary.

3; 1; 2

Answers will vary.

#### Homework

2, 2, 4; 2, 2, 4

Answers will vary.







#### Sprint

1.	1	6.	3
2.	1	7.	3
3.	1	8.	4
4.	2	9.	0
5.	2	10.	4

#### **Problem Set**

Answers will vary.

Answers will vary.

Answers will vary.

Line drawn from 1<sup>st</sup> cube stick to last number bond

Line drawn from 2<sup>nd</sup> cube stick to first number bond

Line drawn from 3<sup>rd</sup> cube stick to second number bond

Line drawn from 4<sup>th</sup> cube stick to third number bond

#### Homework

3 balls drawn; 1

4 crayons drawn; answers will vary

Answers will vary.

Picture and number bond drawn on back of paper



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#### **Problem Set**

Answers will vary.

Answers will vary.

#### Homework

Answers will vary.

6 presents drawn and sorted into 2 groups; correct number bond drawn



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#### **Problem Set**

2, 7; 2, 5, 7

4 squares colored one color; 3 squares colored a different color

1 square colored one color; 6 squares colored a different color

Answers will vary.

Answers will vary.

Answers will vary.

Answers will vary.

#### Homework

4 circles and 3 triangles drawn; 7, 4, 3; 7, 4, 3

5 squares colored one color; 2 squares drawn a different color

Answers will vary.

7 shapes drawn; number bond and number sentence completed to match the drawing





#### **Problem Set**

4; 4

7 dots drawn; 1, 7

Answers will vary.

#### Homework

4;4

#### 8; 7; 1

Answers will vary.

Number bonds for 4, 5, 6, and 7 drawn on back of paper. Answers will vary.



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#### Sprint

1.	1	6.	3
2.	1	7.	4
3.	2	8.	0
4.	2	9.	5
5.	3	10.	5

#### **Problem Set**

7; 6; 1

7; 5; 2

7; 4; 3

7; 3; 4

7; 2; 5

7; 1; 6

Answers will vary.

Answers will vary.

Answers will vary.

#### Homework

7 squares colored green; 1 square colored blue; 8, 7, 1; 8, 7, 1

6 squares colored green; 2 squares colored blue; 8, 6, 2; 8, 6, 2

Answers will vary.

4 squares colored green; 4 squares colored blue; 8, 4, 4; 4, 4, 8

3 squares colored green; 5 squares colored blue; 8, 3, 5; 3, 5, 8

Answers will vary.





#### **Problem Set**

Answers will vary.

#### Homework

- 5 squares colored green; 1 square colored blue; 5, 1; 5, 1 5 squares colored green; 2 squares colored blue; 7, 5, 2; 5, 7
- 4 squares colored green; 3 squares colored blue; 7, 4, 3; 7, 4
- 4 squares colored green; 4 blue squares colored blue; 8, 4, 4; 8, 4, 4
- 3 squares colored green; 5 squares colored blue; 8, 3, 5; 8, 3, 5
- 2 squares colored green; 6 squares colored blue; 8, 2, 6; 2, 6, 8





#### Fluency

1	1	
2	2	
3	3	
4	2	
1	2	
2	1	
3	1	

#### **Problem Set**

- 3 boxes are colored; 3; 3
- 2 boxes are colored; 2, 7; 2, 7
- 6 squares are colored; 1, 6; 5, 1, 6
- 1 square drawn; 5, 1
- 2 squares drawn; 5, 2
- 3 squares drawn; 8, 5, 3

#### Homework

#### 5;5

5 squares colored blue in first row; 2 squares colored red in second row; 7, 2; 7, 2

- 8 squares colored; 8, 3; 8, 3
- 8 squares colored; 5, 3
- 9 squares colored; 9, 5, 4; 4







#### **Fluency Practice**

1	1
2	2
3	4
5	3
1	3
4	2
5	2

#### **Problem Set**

5, 1; 5, 1; 5, 1

6, 2, 4; 6, 2, 4

6;6

6 monkeys drawn; 6, 4, 2; 2, 4, 6

Answers will vary.

#### Homework

6, 4, 2; 6, 4, 2; 6, 4, 2

3, 3, 6; 3, 3, 6; 3, 3, 6







#### Sprint

1.	1	8.	5
2.	2	9.	5
3.	2	10.	5
4.	2	11.	6
5.	3	12.	6
6.	4	13.	6
7.	4		

#### **Problem Set**

7; 7, 5, 2

7; 1, 6, 7

7; 7, 2, 5

7; 4, 3

4 cubes colored; 7, 4, 3

Answers will vary.

#### Homework

7, 3, 4; 3, 4, 7; 7, 4, 3

7, 5, 2; 5, 2, 7

Answers will vary.





#### **Problem Set**

8, 4, 4; 4, 4, 8

8, 5, 3; 5, 3, 8

6, 2, 8; 8, 6, 2

1 triangle circled; 7 squares circled; 1, 7, 8; 8, 1, 7

Answers will vary.

Answers will vary.

#### Homework

8, 5, 3; 5, 3, 8; 8, 5, 3

8, 4, 4; 4, 4, 8; 4, 4, 8







#### Sprint

1.	1	8.	5
2.	2	9.	5
3.	2	10.	6
4.	3	11.	6
5.	3	12.	7
6.	4	13.	7
7.	4		

#### **Problem Set**

Box drawn around snakes; mystery box traced; 6

Box drawn around turtles; mystery box drawn; 7

1 present drawn; mystery box drawn; 8

7 children drawn; box drawn around children; 7

8 frogs drawn; box drawn around frogs; box drawn around answer; 8

#### Homework

7

Box drawn; 6

7 balls drawn in box; girl drawn putting 1 more ball in box; balls circled; box drawn for answer; 8





#### **Problem Set**

4 balloons colored green; 3 balloons colored orange; 4, 3, 7; 7, 3, 4

6 stars colored yellow; 2 stars colored blue; 6, 2, 8; 8, 6, 2

5, 1, 6; 6, 1, 5

3 squares and 3 triangles drawn; 3, 3, 6; 6, 3, 3

5 purple and 3 orange squares drawn; 5, 3, 8; 8, 5, 3

#### Homework

7, 5, 2; 5, 2, 7

8, 6, 2; 6, 2, 8

Answers will vary.



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#### Sprint

1.	1	9.	3
2.	1	10.	3
3.	1	11.	3
4.	1	12.	4
5.	2	13.	4
6.	2	14.	0
7.	2	15.	0
8.	2		

#### **Problem Set**

Answers will vary.

Answers will vary.

Answers will vary.

Answers will vary.

#### Homework

Answers will vary.

Answers will vary.







#### **Problem Set**

3 mice crossed out; 1

2 worms crossed out; 3

- 5 flies crossed out; 2
- 4 bananas crossed out; 4
- 6 balls drawn; 3 crossed out; 3
- 5 butterflies drawn; 1 crossed out; 4

#### Homework

- 1 train crossed out; 4
- 2 horses crossed out; 3
- 4 ducks crossed out; 1
- 7 apples drawn in tree; 1 crossed out; 6





#### **Fluency Practice**

0	6
2	6
3	5
3	5
3	7
4	7
5	7
5	8
5	9

#### **Problem Set**

Line drawn from mice to correct number sentence

- 1 bear crossed off
- 2 bears crossed off
- 4 bears crossed off
- 3 bears crossed off
- 1 bear crossed off
- 2 bears crossed off

#### Homework

Line drawn from stick to correct number sentence

Answers will vary.





#### **Problem Set**

1 scoop crossed out; 3

2 scoops crossed out; 2

3 bottles crossed out; 1

5 erasers drawn; 4 erasers crossed out; 1

5 grapes drawn; 3 grapes crossed out; 5; 3; 2

#### Homework

1 apple crossed out; 4; 4

5 oranges drawn; 2 oranges crossed off; 3; 5, 2, 3







#### Sprint A

3	5
3	5
4	3, 1 or 2, 2
4	1, 4 or 2, 3

#### **Sprint B**

2	5
3	5
4	1, 2
4	1, 4 or 2, 3

#### **Problem Set**

- 3 hats crossed out; 3, 3; 3, 3
- 4 squares crossed out; 4, 2; 4, 2
- 2 circles crossed out; 6, 2, 4; 2, 4
- 1 hat crossed out; 1, 5
- 5 snowflakes crossed out; 5, 1
- 2 snowflakes crossed out; 2, 4

#### Homework

- 2 books crossed out; 2, 4; 2, 4
- 6 stars drawn; 4 stars crossed out; 2, 4, 6; 6, 4, 2
- 6 objects drawn; 5 objects crossed out; 1, 5, 6; 6, 5, 1

Answers will vary.







#### **Problem Set**

2 dots crossed out; 5; number 2 crossed out

5 dots crossed out; 2; 2; number 5 crossed out

4 dots crossed out; 3; 4 crossed out; 3; number 4 crossed out

7 dots drawn; 2 dots crossed out; 5; 5

7 dots drawn in 5-group; 3 dots crossed out; 3, 4; 3, 4

7 dots drawn in 5-group; 4 dots crossed out; 7, 4, 3; 7, 4, 3

#### Homework

- 5 dots crossed out; 5, 2; 5, 2
- 7 dots drawn; 3 dots crossed out; 3, 4; 3, 4
- 7 dots drawn in 5-group; 4 dots crossed out; 4, 3; 4, 3

Answers will vary.





#### **Problem Set**

3 dots crossed off; 3, 5; 3, 5

5 dots crossed off; 8, 5, 3; 5, 3

1 dot crossed off; 8, 1, 7; 1, 7

8 dots drawn; 1 dot crossed off; 8, 1, 7; 1, 7

8 dots drawn in 5-group; 7 dots crossed off; 8, 7, 1; 7, 1

8 dots drawn in 5-group; answers will vary

#### Homework

2 squares crossed off; 2, 6; 2, 6

4 squares crossed off; 4, 4; 4, 4

Answers will vary.

Answers will vary.







#### **Problem Set**

Answers will vary.

Answers will vary.

Answers will vary; 9 written in whole part of number bond Answers will vary; 9 written in whole part of number bond Answers will vary; 9 written in whole part of number bond Answers will vary; 9 written in whole part of number bond

#### Homework

Answers will vary.

Answers will vary, 9 written in whole part of number bond Answers will vary, 9 written in whole part of number bond Answers will vary, 9 written in whole part of number bond





#### **Problem Set**

Line drawn to number bond showing that 7 and 2 make 9 Line drawn to number bond showing that 8 and 1 make 9; 1 Line drawn to number bond showing that 3 and 6 make 9; 6 Line drawn to number bond showing that 4 and 5 make 9 Cube sticks drawn and colored to show 5 and 4 make 9 Cube stick drawn and colored to show 1 and 8 make 9; 1 Answers will vary.

#### Homework

Yes circled

No circled

Yes circled

4;5

Number bond completed that shows that 7 and 2 make 9 Number bond completed that shows that 4 and 5 make 9 Number bond completed that shows that 2 and 7 make 9





#### **Problem Set**

4;6

5 glasses colored green; 5 glasses colored purple; 10, 5, 5

Answers will vary.

Answers will vary.

Answers will vary.

#### Homework

5 beads colored blue; 5 beads colored green; 5, 5, 10

Answers will vary.

Answers will vary.

Answers will vary.







#### **Problem Set**

Line drawn to number bond showing that 8 and 2 make 10; 2 Line drawn to number bond showing that 9 and 1 make 10; 1 Line drawn to number bond showing that 3 and 7 make 10 Line drawn to number bond showing that 5 and 5 make 10 10 cubes drawn; 5 cubes colored 10 cubes drawn; 4 cubes colored

Answers will vary.

#### Homework

5

- 1;6
- 3; 7; 10

10; 4; 6

10; 2; 8

Answers will vary.







#### **Core Fluency Practice**

Set A			Set B		
	2	5	2	1,1	
	5	4	5	5 1,2 or 2,1	L
	3	4	3	4	
	4	4	5	5 4	
	5	5	4	1,2 or 2,1	L
	3	5	3	5	
	4	5	5	1, 3 or 3, 1 or	<sup>.</sup> 2, 2
	5	4	5	1, 3 or 3, 1 or	<sup>.</sup> 2, 2
Set C			Set D		
	4	1	4	1	
	3	2	3	2	
	2	3	2	3	
	1	2	1	. 2	
	3	1	3	1	
	1	1	1	. 1	
	1	2	1	2	
	2	3	2	3	
Set E					
	2	1			
	1	5			
	4	3			
	3	2			
	4	3			
	5	3			
	2	4			
	5	2			





#### **Problem Set**

7, 2; 7, 2

9 peas and carrots drawn the 5-group way; 6, 3

9 black and tan circles drawn the 5-group way; 5, 4, 9

8 red marbles and 1 green marble drawn the 5-group way; 8, 1, 9; 9, 8, 1

#### Homework

6, 1; 6, 1

7, 2, 9; 7, 2, 9

Hockey pucks and stick drawn the 5-group way; 9, 8, 1

Strawberries and grapes drawn the 5-group way; 5, 4, 9







#### **Problem Set**

7, 3; 3, 7

4, 6, 10; number bond showing that 4 and 6 make 10

5 green balloons and 5 blue balloons drawn the 5-group way; 10, 5, 5; 5, 5, 10

10 balls drawn the 5-group way; 8, 2, 10; 10, 8, 2

#### Homework

6, 4; 6, 4

Animals drawn the 5-group way; number bond showing 5 and 5 make 10; 5, 5, 10

3

Answers will vary.

Answers will vary.

Answers will vary.

Answers will vary.



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#### **Core Fluency Sprints**

Set A		Set B	
1. 3	11. 5	1. 1	11. 2
2. 2	12. 4	2. 3	12. 2
3. 5	13. 4	3. 4	13. 2
4. 4	14. 3	4. 2	14. 3
5. 4	15. 5	5. 1	15. 3
6. 5	16. 5	6. 2	16. 1
7. 3	17. 6	7. 2	17.4
8. 5	18. 7	8. 3	18.5
9. 5	19. 1	9. 1	19. 1
10. 4	20. 5	10. 1	20. 0

Set C		Set D	
1. 3	11. 5	1. 3	11. 3
2. 1	12. 1	2. 5	12. 5
3. 4	13. 4	3. 4	13. 2
4. 2	14. 4	4. 4	14. 4
5. 5	15. 5	5. 5	15.3
6. 3	16. 5	6. 2	16. 1
7. 2	17. 0	7. 2	17.4
8. 0	18. 5	8. 3	18.3
9. 4	19. 1	9. 5	19. 1
10. 0	20. 4	10. 1	20. 0





#### **Problem Set**

6 round crackers and 3 square crackers drawn; 6, 3, 9

10 crayons drawn; 9, 1, 10

3 red and 7 purple pieces of paper drawn; 3 + 7 = 10

5 squares and 4 rectangles drawn; 5 + 4 = 9

#### Homework

7 chocolate and 2 sugar cookies drawn; 7, 2, 9

4 apple juice and 5 orange juice boxes drawn; 4, 5, 9

5 celery sticks and 5 carrot sticks drawn; 5 + 5 = 10

Answers will vary.







**Problem Set** 

Answers will vary.

#### **Extra Practice**

5 robots colored one color; 5 robots colored another color 6 robots colored one color; 4 robots colored another color 7 robots colored one color; 3 robots colored another color 8 robots colored one color; 2 robots colored another color 9 robots colored one color; 1 robots colored another color

#### Homework

9 hats drawn the 5-group way; answers will vary

10 pencils drawn the 5-group way; answers will vary

Answers will vary.

Answers will vary.





Problem Set
7; 2; 5
9; 7; 2
10; 6; 4
Pictures will vary; 10, 5, 5
Pictures will vary; 9, 3, 6

#### Homework

2 bears crossed out; 2, 8; number bond showing 2 and 8 make 10

9 bears crossed out; 10, 9, 1; number bond showing 9 and 1 make 10

3 bears crossed out; 10, 3, 7

Lines drawn from the picture to the correct number sentence





#### **Problem Set**

7; 7

1, 9

9, 6, 3; 6, 3

Line drawn after 5 cubes of the 9-cube stick; 9, 4, 5; 4, 5

10 grapes drawn, 6 crossed off; 10, 6, 4; 4, 10

10 bones drawn, 8 crossed off; 10, 8, 2; 8, 2

#### Homework

2 penguins crossed out; 6; 6, 2

Line drawn after 3 cubes; 7, 4, 3; 4, 3

Answers will vary.

4	2
5	4
1	2
4	3







#### **Problem Set**

5 circles crossed off; number bond filled out to show 5 and 4 make 9; 9, 5, 4

4 circles crossed off; number bond filled out to show 4 and 5 make 9; 9, 4, 5

9 stars drawn the 5-group way; 3 stars crossed out; number bond filled out to show 6 and 3 make 9; 9, 3, 6

9 granola bars drawn the 5-group way; 8 crossed out; number bond filled out to show 1 and 8 make 9; 9, 8, 1

1; 1; 1; 1

#### Homework

1 circle crossed out; number bond filled out to show 1 and 8 make 9; 9, 1, 8

3 circles crossed out; number bond filled out to show 3 and 6 make 9; 9, 3, 6

9 pencils drawn the 5-group way; 7 pencils crossed out; number bond filled out to show 7 and 2 make 9; 9, 7, 2

9 balls drawn; 5 balls crossed out; number bond filled out to show 5 and 4 make 9; 9, 5, 4

3; 2; 1; 1







#### **Problem Set**

5 blueberries crossed off; number bond filled in to show 5 and 5 make 10; 10, 5, 5

1 circle crossed off; number bond filled in to show 1 and 9 make 10; 10, 1, 9

10 hats drawn the 5-group way; 7 hats crossed out; number bond filled in to show that 7 and 3 make 10; 10, 7, 3

10 juice boxes drawn; 3 boxes crossed out; number bond filled out to show 3 and 7 make 10; 10, 3, 7

4; 3; 2; 1

#### Homework

2 circles crossed off; number bond filled out to show 2 and 8 make 10; 10, 2, 8

6 circles crossed off; number bond filled out to show 6 and 4 make 10; 10, 6, 4

10 butterflies drawn the 5-group way; 9 butterflies crossed out; number bond filled out to show that 9 and 1 make 10; 10, 9, 1

10 toy cars drawn; 4 cars crossed out; number bond filled out to show 4 and 6 make 10; 10, 4, 6

2; 3; 1; 4







Fluency Template 1		Fluency Template 2
4 + 1 = 5	Answers may vary; equals 5	1
3 + 2 = 5	Answers may vary; equals 5	2
2 + 3 = 5	Answers may vary; equals 5	3
1 + 4 = 5	Answers may vary; equals 5	0
1 + 4 = 5	Answers may vary equals 5	2,2
2 + 3 = 5	Answers may vary; equals 5	2,3
3 + 2 = 5	Answers may vary; equals 5	

#### **Problem Set**

5; 3

- 7, 2, 5; 5, 2, 7
- 4, 3, 7; 7, 3, 4
- 8, 0, 8; 6, 0, 6
- 2; 2; 4; 3

#### Homework

- 5, 3, 8; number bond filled out to show that 5 and 3 make 8
- 8, 3, 5; number bond filled out to show that 3 and 5 make 8
- 9, 0, 9; number bond filled out to show that 9 and 0 make 9
- 8, 0, 8; number bond filled out to show that 8 and 0 make 8
- 1; 2; 3; 4
- 5; 4; 3; 2







#### **Problem Set**

2; 2 circles colored two different colors

3; 2 circles colored one color, 1 circle colored another color 4; 3 circles colored one color, 1 circle colored another color 5; 4 circles colored one color, 1 circle colored another color 6; 5 circles colored one color, 1 circle colored another color 7; 6 circles colored one color, 1 circle colored another color 8; 7 circles colored one color, 1 circle colored another color 9; 8 circles colored one color, 1 circle colored another color 10; 9 circles colored one color, 1 circle colored another color Answers will vary.

#### Homework

9 squares colored green, 1 square colored blue; 9, 1, 10; number bond filled out to show that 9 and 1 make 10
8 squares colored green, 1 square colored blue; 8, 1, 9
7 squares colored green, 1 square colored blue; 7, 1, 8; number bond filled out to show that 7 and 1 make 8
2 squares colored green, 1 square colored blue; 2, 1, 3; number bond filled out to show that 2 and 1 make 3
1 square colored green, 1 square colored blue; 1, 1, 2
1 square colored blue; 0, 1, 1; number bond filled out to show that 0 and 1 make 1

3; 2; 1; 0







#### **Problem Set**

1 dot drawn, number bond showing 9 and 1 make 10; 9 dots drawn, number bond showing 1 and 9 make 10
2 dots drawn, number bond showing 8 and 2 make 10; 8 dots drawn, number bond showing 2 and 8 make 10
5 dots drawn, number bond showing 5 and 5 make 10
6 dots drawn, number bond showing 4 and 6 make 10; 4 dots drawn, number bond showing 6 and 4 make 10
7 dots drawn, number bond showing 3 and 7 make 10; 3 dots drawn, number bond showing 7 and 3 make 10
10; 10; 10; 10

#### Homework

6 dots drawn; line drawn to number bond showing 4 and 6 make 10

9 dots drawn; line drawn to number bond showing 1 and 9 make 10

2 dots drawn; line drawn to number bond showing 8 and 2 make 10

3 dots drawn; line drawn to number bond showing 7 and 3 make 10



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#### **Fluency Template**

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

#### **Practice Sheet**

Answers will vary.

#### **Problem Set**

2 dots drawn; 8, 2	9 dots are drawn; 1, 9
5 dots drawn; 5, 5	6 dots are drawn; 4, 6
8 dots drawn; 2, 8	7 dots are drawn; 3, 7
4 dots drawn; 6, 4	3 dots are drawn; 7, 3

Answers will vary.

#### Homework

2 boxes colored red and 8 boxes colored blue the 5-group way; 2, 8, 10

5 cubes colored red and 5 cubes colored blue the 5-group way; 5, 5, 10

7 cubes colored red and 3 colored blue the 5-group way; 7, 3, 10

Match number sentence to shaded cubes.





#### Homework

6 blocks colored blue, 4 blocks colored red; 10, 6, 4; number bond filled out to show that 6 and 4 make 10

Answers will vary.

Answers will vary.

Answers will vary.

2	3
3	4
4	5
5	5
6	5



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