Sharing patterns: who gets more? worksheet – Grade 2

Grade 2 · Mixed level · 20 questions · **Version X7625**

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1. Hana and Dev share cards. Dev gives Hana 2 cards and keeps 3 cards. Then Dev gives Hana 4 cards and keeps 5 cards, and so on, 5 times in all. How many cards does Dev get altogether?

Each round

Round	Hana	Dev
1	2	3
2	4	5
3	6	7

A. 36 **B.** 35 **C.** 45 **D.** 37

2. Ravi and Emma share beads. Emma gives Ravi 1 bead and keeps 2 beads. Then Emma gives Ravi 3 beads and keeps 4 beads, and so on, 5 times in all. How many beads does Emma get altogether? Liam says the answer is 20. Is Liam right?

Each round

Round	Ravi	Emma
1	1	2
2	3	4
3	5	6

A. Yes **B.** No

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3. Ben and Emma share marbles. Emma gives Ben 1 marble and keeps 2 marbles. Then Emma gives Ben 3 marbles and keeps 4 marbles, and so on, 3 times in all. How many marbles does Ben get in round 3?

Each round

Round	Ben	Emma
1	1	2
2	3	4
3	5	6

A. 4 **B.** 5 **C.** 3 **D.** 7

4. Sofia and Jayden share stickers. Jayden gives Sofia 2 stickers and keeps 3 stickers. Then Jayden gives Sofia 4 stickers and keeps 5 stickers, and so on, 3 times in all. How many stickers does Sofia get in round 3?

Each round

Round	Sofia	Jayden
1	2	3
2	4	5
3	6	7

Answer: _____

5. Dev and Noah share counters. Noah gives Dev 2 counters and keeps 3 counters. Then Noah gives Dev 4 counters and keeps 5 counters, and so on, 4 times in all. How many counters does Dev get altogether?

Each round

Round	Dev	Noah
1	2	3
2	4	5
3	6	7

A. 18 **B.** 20 **C.** 30 **D.** 22

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6. Leah and Nia share beads. Nia gives Leah 2 beads and keeps 3 beads. Then Nia gives Leah 4 beads and keeps 5 beads, and so on, 3 times in all. How many beads does Leah get altogether? Ethan says the answer is 22. Is Ethan right?

	Each round	
Round	**Leah**	**Nia**
1	2	3
2	4	5
3	6	7

A. Yes **B.** No

7. Nia and Leah share cards. Leah gives Nia 1 card and keeps 2 cards. Then Leah gives Nia 3 cards and keeps 4 cards, and so on, 5 times in all. How many more does Leah get in each round?

	Each round	
Round	**Nia**	**Leah**
1	1	2
2	3	4
3	5	6

Answer: _____

8. Nia and Noah share cookies for 10 rounds. In every round Noah gets 1 more than Nia. How many more does Noah get altogether? Ethan says the answer is 10. Is Ethan right?

A. Yes **B.** No

9. Ben and Noah share stickers. Noah gives Ben 1 sticker and keeps 2 stickers. Then Noah gives Ben 3 stickers and keeps 4 stickers, and so on, 10 times in all. How much extra does Noah get in the end? Noah says the answer is 10. Is Noah right?

	Each round	
Round	**Ben**	**Noah**
1	1	2
2	3	4
3	5	6

A. Yes **B.** No

10. Ben and Priya share beads. Priya gives Ben 5 beads and keeps 10 beads. Then Priya gives Ben 15 beads and keeps 20 beads, and so on, 8 times in all. Who ends up with more? Priya chose Ben. Is Priya right?

A. Yes **B.** No

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11. Mateo and Maya share marbles. Maya gives Mateo 3 marbles and keeps 4 marbles. Then Maya gives Mateo 5 marbles and keeps 6 marbles, and so on, 6 times in all. How much extra does Maya get in the end?

Each round

Round	Mateo	Maya
1	3	4
2	5	6
3	7	8

A. 5 **B.** 8 **C.** 6 **D.** 4

12. Lucas and Ethan share marbles for 6 rounds. In every round Ethan gets 5 more than Lucas. How many more does Ethan get altogether? Ava says the answer is 40. Is Ava right?

A. Yes **B.** No

13. Liam and Ben share stickers for 8 rounds. In every round Ben gets 2 more than Liam. How many more does Ben get altogether? Sofia says the answer is 16. Is Sofia right?

A. Yes **B.** No

14. Lucas and Ben share beads for 10 rounds. In every round Ben gets 5 more than Lucas. How many more does Ben get altogether?

A. 52 **B.** 49 **C.** 51 **D.** 50

15. Chloe and Ethan share beads for 18 rounds. Every round Ethan gets 2 more. How many more does Ethan have at the end? Priya says the answer is 36. Is Priya right?

A. Yes **B.** No

16. Chloe and Nia share beads. Nia gives Chloe 3 beads and keeps 4 beads. Then Nia gives Chloe 5 beads and keeps 6 beads, and so on, 14 times in all. What is the extra after only 7 rounds?

Each round

Round	Chloe	Nia
1	3	4
2	5	6
3	7	8

Answer: _____

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17. Ravi and Priya share cards. Priya gives Ravi 1 card and keeps 2 cards. Then Priya gives Ravi 3 cards and keeps 4 cards, and so on, 19 times in all. How much extra does Priya get in the end?

Each round

Round	Ravi	Priya
1	1	2
2	3	4
3	5	6

Answer: _____

18. Lucas and Ravi share dollars. Ravi gives Lucas $2 and keeps $4. Then Ravi gives Lucas $6 and keeps $8, and so on, 11 times in all. What is the extra after only 5 rounds?

Each round

Round	Lucas	Ravi
1	2	4
2	6	8
3	10	12

Answer: _____

19. Leah and Lucas share cards. Lucas gives Leah 2 cards and keeps 3 cards. Then Lucas gives Leah 4 cards and keeps 5 cards, and so on, 12 times in all. Lucas gives back 1 after each round to be fair. How many does Lucas give back altogether? Arjun says the answer is 12. Is Arjun right?

Each round

Round	Leah	Lucas
1	2	3
2	4	5
3	6	7

A. Yes **B.** No

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20. Zara and Ravi share cookies. Ravi gives Zara 3 cookies and keeps 4 cookies. Then Ravi gives Zara 5 cookies and keeps 6 cookies, and so on, 14 times in all. Ravi gives back 1 after each round to be fair. How many does Ravi give back altogether? Zara says the answer is 14. Is Zara right?

Each round

Round	Zara	Ravi
1	3	4
2	5	6
3	7	8

A. Yes **B.** No

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Answer key · Version X7625

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1. **B (35)**
2. **B (No)**
3. **B (5)**
4. **6**
5. **B (20)**
6. **B (No)**
7. **1**
8. **A (Yes)**
9. **A (Yes)**
10. **B (No)**
11. **C (6)**
12. **B (No)**
13. **A (Yes)**
14. **D (50)**
15. **A (Yes)**
16. **7**
17. **19**
18. **10**
19. **A (Yes)**
20. **A (Yes)**

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