Sharing patterns: working it out worksheet – Grade 3

Grade 3 · Mixed level · 20 questions · **Version X1654**

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1. Kai and Leah share dollars. Leah gives Kai $5 and keeps $10. Then Leah gives Kai $15 and keeps $20, and so on, 8 times in all. How much extra does Leah get?

   Each round

Round	Kai	Leah
1	5	10
2	15	20
3	25	30

   Answer: _____

2. Ethan and Ava share cards. Every round Ava gets 5 more than Ethan. After how many rounds does Ava have 40 extra?

   Answer: _____

3. Nia and Liam share beads. Every round Liam gets 2 more than Nia. After how many rounds does Liam have 14 extra? Priya says the answer is 6. Is Priya right?

   A. Yes **B.** No

4. Amara and Chloe share cookies. Chloe gives Amara 2 cookies and keeps 3 cookies. Then Chloe gives Amara 4 cookies and keeps 5 cookies, and so on, 7 times in all. How much extra does Chloe get?

   Each round

Round	Amara	Chloe
1	2	3
2	4	5
3	6	7

   A. 6 **B.** 9 **C.** 7 **D.** 5

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5. Sofia and Kai share beads. Kai gives Sofia 1 bead and keeps 2 beads. Then Kai gives Sofia 3 beads and keeps 4 beads, and so on, 7 times in all. How much extra does Kai get?

Each round

Round	Sofia	Kai
1	1	2
2	3	4
3	5	6

A. 6 **B.** 7 **C.** 8 **D.** 5

6. Sofia and Mateo share cards. Mateo gives Sofia 5 cards and keeps 10 cards. Then Mateo gives Sofia 15 cards and keeps 20 cards, and so on, 5 times in all. Sofia gets 125 altogether. How many does Mateo get? Use the extra to help.

Each round

Round	Sofia	Mateo
1	5	10
2	15	20
3	25	30

Answer: _____

7. Leah and Maya share dollars. Every round Maya gets 2 more than Leah. After how many rounds does Maya have 10 extra?

Answer: _____

8. Priya and Ethan share stickers. Every round Ethan gets 2 more than Priya. After how many rounds does Ethan have 22 extra?

A. 21 **B.** 11 **C.** 13 **D.** 1

9. Maya and Kai share cards. Every round Kai gets 1 more than Maya. After how many rounds does Kai have 6 extra?

A. 7 **B.** 6 **C.** 8 **D.** 16

10. Ravi and Leah share beads. Every round Leah gets 2 more than Ravi. After how many rounds does Leah have 20 extra?

A. 0 **B.** 10 **C.** 8 **D.** 9

11. Hana and Arjun share dollars. Every round Arjun gets 2 more than Hana. After how many rounds does Arjun have 18 extra?

A. 19 **B.** 9 **C.** 11 **D.** 10

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12. Jayden and Omar share 20 stickers so that Omar gets 4 more than Jayden. How many does Omar get?

    A. 10 **B.** 11 **C.** 12 **D.** 22

13. Chloe and Nia share cards. Nia gives Chloe 1 card and keeps 2 cards. Then Nia gives Chloe 3 cards and keeps 4 cards, and so on, 6 times in all. How many cards do they share altogether? Ethan says the answer is 78. Is Ethan right?

    Each round

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

    A. Yes **B.** No

14. Nia and Sofia share 80 beads so that Sofia gets 8 more than Nia. How many does Nia get?

    Answer: _____

15. Maya and Kai share 40 counters so that Kai gets 6 more than Maya. How many does Maya get?

    A. 15 **B.** 18 **C.** 17 **D.** 7

16. Mateo and Hana share 40 beads so that Hana gets 12 more than Mateo. How many does Hana get? Ethan says the answer is 16. Is Ethan right?

    A. Yes **B.** No

17. Arjun and Priya share cookies. Priya gives Arjun 2 cookies and keeps 3 cookies. Then Priya gives Arjun 4 cookies and keeps 5 cookies, and so on, 11 times in all. Arjun gets 132 altogether. How many does Priya get? Use the extra to help. Ava says the answer is 133. Is Ava right?

    Each round

Round	Arjun	Priya
1	2	3
2	4	5
3	6	7

    A. Yes **B.** No

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18. Ravi and Emma share stickers. Emma gives Ravi 1 sticker and keeps 3 stickers. Then Emma gives Ravi 4 stickers and keeps 6 stickers, and so on, 12 times in all. Ravi gets 210 altogether. How many does Emma get? Use the extra to help.

	Each round	
Round	**Ravi**	**Emma**
1	1	3
2	4	6
3	7	9

A. 235 **B.** 233 **C.** 224 **D.** 234

19. Arjun and Ethan share beads. Ethan gives Arjun 3 beads and keeps 4 beads. Then Ethan gives Arjun 5 beads and keeps 6 beads, and so on, 9 times in all. How many beads do they share altogether?

	Each round	
Round	**Arjun**	**Ethan**
1	3	4
2	5	6
3	7	8

A. 205 **B.** 209 **C.** 207 **D.** 217

20. Isla and Lucas share cards. Lucas gives Isla 3 cards and keeps 4 cards. Then Lucas gives Isla 5 cards and keeps 6 cards, and so on, 10 times in all. Isla gets 120 altogether. How many does Lucas get? Use the extra to help.

	Each round	
Round	**Isla**	**Lucas**
1	3	4
2	5	6
3	7	8

Answer: _____

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Answer key · Version X1654

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1. **40**
2. **8**
3. **B (No)**
4. **C (7)**
5. **B (7)**
6. **150**
7. **5**
8. **B (11)**
9. **B (6)**
10. **B (10)**
11. **B (9)**
12. **C (12)**
13. **A (Yes)**
14. **36**
15. **C (17)**
16. **B (No)**
17. **B (No)**
18. **D (234)**
19. **C (207)**
20. **130**

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