

Pattern Puzzles – Pack 33

Puzzle 1. What comes next in the sequence?

11	20	41	80	143	236	365	?
----	----	----	----	-----	-----	-----	---

- | | | | |
|--------|--------|--------|--------|
| A) 542 | B) 536 | C) 530 | D) 494 |
|--------|--------|--------|--------|

Puzzle 2. What comes next in the sequence?

11	15	27	63	171	495	1467	?
----	----	----	----	-----	-----	------	---

- | | | | |
|---------|---------|---------|---------|
| A) 4383 | B) 4387 | C) 2439 | D) 3411 |
|---------|---------|---------|---------|

Puzzle 3. What comes next in the sequence?

10	3	15	18	5	18	26	7	?
----	---	----	----	---	----	----	---	---

- | | | | |
|-------|-------|------|-------|
| A) 34 | B) 22 | C) 9 | D) 21 |
|-------|-------|------|-------|

Puzzle 4. What comes next in the sequence?

6	8	8	8	14	13	10	20	?
---	---	---	---	----	----	----	----	---

- | | | | |
|-------|-------|-------|-------|
| A) 18 | B) 12 | C) 26 | D) 19 |
|-------|-------|-------|-------|

Puzzle 5. What comes next in the sequence?

3	7	15	31	63	127	255	?
---	---	----	----	----	-----	-----	---

- | | | | |
|--------|--------|--------|--------|
| A) 515 | B) 383 | C) 511 | D) 482 |
|--------|--------|--------|--------|

Pattern Puzzles – Pack 33

Puzzle 6. What comes next in the sequence?

4	2	10	11	10	14	18	18	?
---	---	----	----	----	----	----	----	---

- | | | | |
|-------|-------|-------|-------|
| A) 25 | B) 18 | C) 26 | D) 19 |
|-------|-------|-------|-------|

Puzzle 7. What comes next in the sequence?

17	34	26	52	44	88	80	160	?
----	----	----	----	----	----	----	-----	---

- | | | | |
|--------|--------|--------|--------|
| A) 321 | B) 160 | C) 152 | D) 320 |
|--------|--------|--------|--------|

Puzzle 8. What comes next in the sequence?

8	20	46	92	164	268	410	?
---	----	----	----	-----	-----	-----	---

- | | | | |
|--------|--------|--------|--------|
| A) 602 | B) 590 | C) 596 | D) 552 |
|--------|--------|--------|--------|

Puzzle 9. What comes next in the sequence?

11	13	17	25	41	73	137	?
----	----	----	----	----	----	-----	---

- | | | | |
|--------|--------|--------|--------|
| A) 265 | B) 201 | C) 267 | D) 221 |
|--------|--------|--------|--------|

Puzzle 10. What comes next in the sequence?

12	15	21	33	57	105	201	?
----	----	----	----	----	-----	-----	---

- | | | | |
|--------|--------|--------|--------|
| A) 360 | B) 297 | C) 396 | D) 393 |
|--------|--------|--------|--------|

Answer Key

1. **B) 536**
1st diffs: 9, 21, 39, 63, 93, 129.
2. **A) 4383**
Differences form geometric sequence ($\times 3$): 4, 12, 36, 108, 324, 972, 2916.
3. **D) 21**
Three interleaved arithmetic series (period 3).
4. **A) 18**
Three interleaved arithmetic series (period 3).
5. **C) 511**
Differences form geometric sequence ($\times 2$): 4, 8, 16, 32, 64, 128, 256.
6. **B) 18**
Three interleaved arithmetic series (period 3).
7. **D) 320**
Alternating: $\times 2$ (odd steps), -8 (even steps).
8. **C) 596**
1st diffs: 12, 26, 46, 72, 104, 142.
9. **A) 265**
Differences form geometric sequence ($\times 2$): 2, 4, 8, 16, 32, 64, 128.
10. **D) 393**
Differences form geometric sequence ($\times 2$): 3, 6, 12, 24, 48, 96, 192.