

Unit 1: Patterns and Algebra

Quiz (Lessons 1–4) — AB

Name: _____

Date: _____

1. Add or subtract.

a) $4 \text{ } \overset{+5}{\circ}$ _____

b) $7 \text{ } \overset{-4}{\circ}$ _____

c) $13 \text{ } \overset{+6}{\circ}$ _____

d) $17 \text{ } \overset{-8}{\circ}$ _____

2. Fill in the missing number.

a) _____ is 6 more than 11.

b) _____ is 7 less than 25.

c) _____ is 5 more than 23.

d) _____ is 9 less than 34.

3. Find the gap between the numbers.

a) $9 \text{ } \circ \text{ } 16$

b) $13 \text{ } \circ \text{ } 9$

c) $15 \text{ } \circ \text{ } 23$

d) $21 \text{ } \circ \text{ } 12$

4. Extend the number pattern by subtracting.

a) $19 \text{ } \circ \text{ } 16 \text{ } \circ \text{ } 13 \text{ } \circ \text{ } \text{ } \circ$

b) $35 \text{ } \circ \text{ } 29 \text{ } \circ \text{ } 23 \text{ } \circ \text{ } \text{ } \circ \text{ } \circ$

c) $32 \text{ } \circ \text{ } 25 \text{ } \circ \text{ } 18 \text{ } \circ \text{ } \text{ } \circ$

d) $33 \text{ } \circ \text{ } 28 \text{ } \circ \text{ } 23 \text{ } \circ \text{ } \text{ } \circ \text{ } \circ$

BONUS ▶ Alex has 23 grapes on Tuesday. He eats 4 each day. How many does he have left on Friday?

$\overset{23}{\circ}$	\circ	\circ	\circ
Tuesday	Wednesday	Thursday	Friday

Unit 1: Patterns and Algebra






Quiz (Lessons 5–6) — AB





Name: _____






Date: _____

1. Find the gap. Then extend the number pattern.

a)    
6 , 10 , 14 , _____ , _____

b)     
23 , 19 , 15 , _____ , _____ , _____

c)    
24 , 18 , 12 , _____ , _____

d)     
18 , 25 , 32 , _____ , _____ , _____

2. Extend the number pattern by adding or subtracting.

a) Add 6. 11, 17, _____, _____, _____

b) Subtract 4. 33, 29, _____, _____, _____

3. What number do you add or subtract to make the number pattern?

a) 41, 44, 47, 50 Add _____.

b) 31, 27, 23, 19 Subtract _____.

4. Find the rule for the number pattern. Then extend the pattern.

a) 13, 19, 25, _____, _____, _____ Rule: Start at _____ and add _____ each time.

b) 43, 39, 35, _____, _____, _____ Rule: Start at _____ and subtract _____ each time.

BONUS ► Circle the number patterns made by adding 4.
Hint: Check the gap between each pair of numbers.

A. 18, 21, 24, 27

B. 11, 15, 19, 23

C. 26, 30, 34, 38

D. 28, 24, 20, 16

E. 33, 37, 41, 45

F. 14, 18, 22, 28

Unit 1: Patterns and Algebra

Quiz (Lessons 7–10) — AB

Name: _____

Date: _____

- What is the 5th letter of the alphabet? _____
 - Circle the 2nd a in “banana.”
 - What is the 9th letter in “mathematics”? _____

2. Shade the given row or column.

a) the 3rd row

b) the 5th column

3. Complete the T-table. Then write the rule for the pattern.

a)

Month	Dollars Saved
January	9
February	13
March	17
April	

Rule: Start at _____ and add _____.

b)

Month	Dollars Saved
January	11
February	18
March	25
April	

Rule: Start at _____ and add _____.

BONUS ►

Abby earns 9 dollars each hour.
How much money will she earn for
3 hours of work?

Hours Worked	Dollars Earned
1	9

4. Which attribute changes? Write “shape,” “size,” or “colour.”

