

46 (Follow the rule) Paper 1 Name: _____

1. Look at the rule below

Multiply the previous number by 3 and then subtract 4

a) Sam uses this rule to write a sequence. Which number does Sam write down **after number 19**? Write your answer in the space below.

b) Sam continues the sequence. Which number comes **before 62** in the sequence? Write your answer in the space below.

2. Look at the rule below

Multiply the previous number by 4 and then subtract 9

a) John uses this rule to write a sequence. Which number does John write down **after number 21**? Write your answer in the space below.

b) John continues the sequence. Which number comes **before 71** in the sequence? Write your answer in the space below.

3. Look at the rule below

Multiply the previous number by 5 and then subtract 11

a) Ruth uses this rule to write a sequence. Which number does Ruth write down **after number 13**? Write your answer in the space below.

b) Ruth continues the sequence. Which number comes **before 74** in the sequence? Write your answer in the space below.

4. Look at the rule below

Multiply the previous number by 2 and then subtract 6

a) Grace uses this rule to write a sequence. Which number does Grace write down **after number 9**? Write your answer in the space below.

b) Grace continues the sequence. Which number comes **before 17** in the sequence? Write your answer in the space below.

5. Look at the rule below

Divide the previous number by 3 and then add 4

a) Derek uses this rule to write a sequence. Which number does Derek write down **after number 72**? Write your answer in the space below.

b) Derek continues the sequence. Which number comes **before 16** in the sequence? Write your answer in the space below.

6. Look at the rule below

Multiply the previous number by 3 and then add 12

a) Toby uses this rule to write a sequence. Which number does Toby write down **after number 101**? Write your answer in the space below.

b) Toby continues the sequence. Which number comes **before 123** in the sequence? Write your answer in the space below.

7. Look at the rule below

Multiply the previous number by 6 and then subtract 5

a) Clare uses this rule to write a sequence. Which number does Clare write down **after number 17**? Write your answer in the space below.

b) Clare continues the sequence. Which number comes **before 79** in the sequence? Write your answer in the space below.

8. Look at the rule below

Divide the previous number by 4 and then subtract 7

a) Jen uses this rule to write a sequence. Which number does Jen write down **after number 52**? Write your answer in the space below.

b) Jen continues the sequence. Which number comes **before 26** in the sequence? Write your answer in the space below.

9. Look at the rule below

Divide the previous number by 5 and then add 11

a) Barney uses this rule to write a sequence. Which number does Barney write down **after number 71**? Write your answer in the space below.

b) Barney continues the sequence. Which number comes **before 400** in the sequence? Write your answer in the space below.

10. Look at the rule below

Multiply the previous number by 7 and then subtract 14

a) Max uses this rule to write a sequence. Which number does Max write down **after number 63**? Write your answer in the space below.

b) Max continues the sequence. Which number comes **before 77** in the sequence? Write your answer in the space below.

11. Look at the rule below

Multiply the previous number by 8 and then add 16

a) Patrick uses this rule to write a sequence. Which number does Patrick write down **after number 31**? Write your answer in the space below.

b) Patrick continues the sequence. Which number comes **before 280** in the sequence? Write your answer in the space below.

12. Look at the rule below

Divide the previous number by 11 and then subtract 2

a) Gemma uses this rule to write a sequence. Which number does Gemma write down **after number 132**? Write your answer in the space below.

b) Gemma continues the sequence. Which number comes **before 251** in the sequence? Write your answer in the space below.

Answers

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| 1. a) 53 | b) 22 |
| 2. a) 75 | b) 20 |
| 3. a) 54 | b) 17 |
| 4. a) 12 | b) 11.5 |
| 5. a) 28 | b) 36 |
| 6. a) 315 | b) 37 |
| 7. a) 97 | b) 14 |
| 8. a) 6 | b) 132 |
| 9. a) 25.2 | b) 1945 |
| 10.a) 427 | b) 13 |
| 11.a) 264 | b) 33 |
| 12.a) 10 | b) 2783 |