**Determine rules from input-output tables**

1 Does this rule create each output from its input?

Rule: multiply by 12

Input	Output
2	18
4	36
5	45
7	63
8	72

A

No

B

Yes

2 Does this rule create each output from its input?

Rule: subtract 6

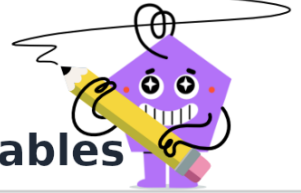
Input	Output
6	12
7	13
8	14
9	15
12	18

A

Yes

B

No

**Determine rules from input-output tables**

3 Does this rule create each output from its input?

Rule: multiply by 5

Input	Output
5	1
10	2
15	3
35	7
45	9

A

No

B

Yes

4 What is the missing value in the table?

Rule: divide by 4

Input	Output
8	2
12	3
16	4
20	?
28	7

A

24

B

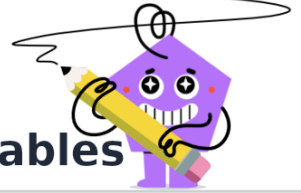
100

C

5

D

17

**Determine rules from input-output tables**

5 What is the missing value in the table?

Rule: multiply by 4 then add 5

Input	Output
2	13
4	?
5	25
6	29
7	33

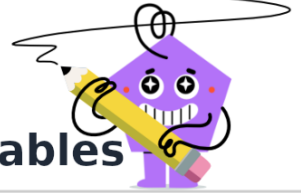
A	20
B	21
C	14
D	23

6 What is the missing value in the table?

Rule: divide by 2

Input	Output
2	?
6	3
14	7
16	8
18	9

A	16
B	18
C	1
D	20

**Determine rules from input-output tables**

7 What rule turns each input into its output?

Input	Output
2	6
4	12
6	18
8	24
9	27

A

add 9

B

multiply by 3

C

divide by 6

D

subtract 3

8 What rule turns each input into its output?

Input	Output
1	9
3	11
9	17
10	18
15	23

A

subtract 1

B

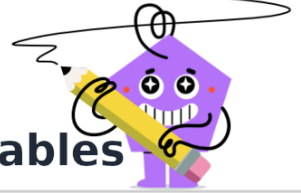
add 5

C

add 8

D

add 2

**Determine rules from input-output tables****9** What rule turns each input into its output?

Input	Output
14	2
21	3
35	5
49	7
56	8

A

divide by 7

B

divide by 12

C

multiply by 2

D

divide by 2

10 What rule turns each input into its output?

Input	Output
2	0
3	2
4	4
5	6
7	10

A

multiply by 2 then add 6

B

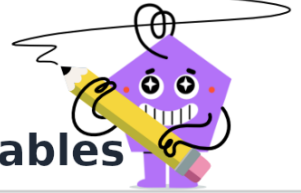
multiply by 4 then subtract 8

C

multiply by 3 then add 1

D

multiply by 2 then subtract 4

**Determine rules from input-output tables****11** What rule turns each input into its output?

Input	Output
1	9
6	14
9	17
10	?
11	19

A

add 8

B

multiply by 8

C

multiply by 9

D

divide by 7

12 What rule turns each input into its output?

Input	Output
7	?
9	10
11	12
13	14
14	15

A

add 3

B

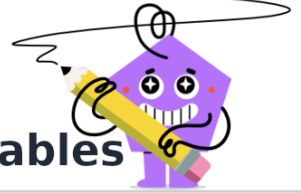
add 4

C

add 1

D

subtract 11

**Determine rules from input-output tables****13** What rule turns each input into its output?

Input	Output
3	21
5	35
6	42
7	49
9	?

A

multiply by 10

B

multiply by 11

C

multiply by 7

D

multiply by 2

14 What rule turns each input into its output?

Input	Output
1	1
2	3
3	5
6	?
9	17

A

multiply by 2 then subtract 1

B

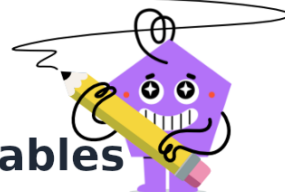
multiply by 3 then subtract 7

C

multiply by 4 then add 3

D

multiply by 4 then subtract 8

**Determine rules from input-output tables****15** What is the missing value in the table?

Input	Output
1	4
2	8
6	24
7	?
8	32

A

17

B

28

C

56

D

42

16 What is the missing value in the table?

Input	Output
1	2
4	11
6	?
8	23
9	26

A

34

B

16

C

17

D

28