

Name _____

Date _____

Sequences (A)

① Complete the table.

First number	1	2	3	4	5	6
Second number	3	6	9			

a) Describe the pattern in the table.

b) What would the 9th term in the pattern be?

② Complete the table.


First number	1	2	3	4	5	6
Second number	5	10	15			


a) Describe the pattern in the table.


b) What would the 8th term in the pattern be?


③ Apply the rule to complete the number patterns.


a)  $\times 2 =$

	1	2	3	4	5	6	7	8
<input type="text"/>								

b)  $+ 5 \times 2 =$

	1	3	5	7	9	11	13	15
<input type="text"/>								

c)  $\times 10 - 6 =$

	1	3	5	7	9	11	13	15
<input type="text"/>								

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Sequences (B)

① Complete the table.

x	1	2	3	4	5	6
y	7	14	21			

a) Describe the pattern in the table.

b) What would the 10th term in the pattern be?

② Complete the table.

x	10	20	30	40	50	60
y	19			79		119

a) Describe the pattern in the table.

b) What would the 100th term in the pattern be?

③ Apply the rule to complete the number patterns.

a) $\bigcirc \times 10 \div 2 = \square$

\bigcirc	1	2	3	4	5	6	7	8
\square								

b) $4 \times \bigcirc + 5 \times 2 = \square$

\bigcirc	2	4	6	8	10	12	14	16
\square								

c) Make your own rule. Fill in the table using your rule.



Sequences (A) - Answers

① Complete the table.

First number	1	2	3	4	5	6
Second number	3	6	9	12	15	18

a) Describe the pattern in the table:

The second number is going up by 3.

b) What would the 9th term in the pattern be?

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② Complete the table.

First number	1	2	3	4	5	6
Second number	5	10	15	20	25	30

a) Describe the pattern in the table:

The second number is going up by 5.


b) What would the 8th term in the pattern be?

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③ Apply the rule to complete the number patterns.


a)  $\times 2 = \square$

	1	2	3	4	5	6	7	8
<input type="text"/>	2	4	6	8	10	12	14	16

b)  $+ 5 \times 2 = \square$

	1	3	5	7	9	11	13	15
<input type="text"/>	12	16	20	24	28	32	36	40

c)  $\times 10 - 6 = \square$

	1	3	5	7	9	11	13	15
<input type="text"/>	4	24	44	64	84	104	124	144

Sequences (B) - Answers

① Complete the table.

x	1	2	3	4	5	6
y	7	14	21	28	35	42

a) Describe the pattern in the table:

y is going up by 7. _____

x x 7 = y _____

b) What would the 10th term in the pattern be?

70 _____

② Complete the table.

x	10	20	30	40	50	60
y	19	39	59	79	99	119

a) Describe the pattern in the table:

y is going up by 20. _____

x x 2 - 1 = _____

b) What would the 100th term in the pattern be?

199 _____

③ Apply the rule to complete the number patterns.

a) $\bigcirc \times 10 \div 2 = \square$

\bigcirc	1	2	3	4	5	6	7	8
\square	5	10	15	20	25	30	35	40

b) $4 \times \bigcirc + 5 \times 2 = \square$

\bigcirc	2	4	6	8	10	12	14	16
\square	18	26	34	42	50	58	66	74

c) Make your own rule. Fill in the table using your rule.



Name _____

Date _____

Order of Operations (A)

① Calculate each expression.

a) $(4 \times 3) + 2 =$ _____

= _____

b) $(5 \times 4) - 2 =$ _____

= _____

c) $16 - (2 \times 7) =$ _____

= _____

d) $3 \times (15 - 5) - 8 =$ _____

= _____

= _____

e) $70 - (9 + 4) \times 5 =$ _____

= _____

= _____

f) $60 - (55 - 2) + 10 =$ _____

= _____

= _____

② Put brackets around the sums to be calculated first and then solve each expression.

a) $2 + 8 \times 2 =$ _____

= _____

b) $5 \times 2 - 9 =$ _____

= _____

c) $7 - 2 \times 1 - 4 =$ _____

= _____

= _____

d) $35 + 7 \times 4 - 24 =$ _____

= _____

= _____

e) $65 + 64 \div 8 =$ _____

= _____

f) $30 + 85 \div 5 + 16 =$ _____

= _____

= _____

③ Fill in the missing numbers and operators. Use brackets to help you.

a) $2 + (7 \text{ ___ } 6) = 44$

b) $7 \times (4 \text{ ___ } 1) = 21$

c) $18 \text{ ___ } (2 \times 3) = 12$

d) $(3 \times \text{ ___}) - 5 = 4$

e) $38 - (2 \times \text{ ___}) = 26$

f) $(12 \div \text{ ___}) + 4 = 7$



Name _____

Date _____

Order of Operations (B)

① Calculate each expression.

a) $(7 \times 2) - 9 =$ _____
 $=$ _____

b) $2 \times (7 - 5) =$ _____
 $=$ _____

c) $1 \times (5 - 5) =$ _____
 $=$ _____

d) $(9 \div 9) \times 8 + 7 =$ _____
 $=$ _____
 $=$ _____

e) $7 - (8 \div 2) + 1 =$ _____
 $=$ _____
 $=$ _____

f) $(76 + 16) - 11 - 3 =$ _____
 $=$ _____
 $=$ _____

② Put brackets around the sums to be calculated first and then solve each expression.

a) $34 + 5 \times 15 =$ _____
 $=$ _____

b) $14 - 5 \div 9 - 6 =$ _____
 $=$ _____

c) $2 \times 3 + 5 - 9 =$ _____
 $=$ _____
 $=$ _____

d) $24 - 6 \div 2 \times 3 =$ _____
 $=$ _____
 $=$ _____

e) $12 \times 4 + 6 \times 3 - 15 \times 2 =$ _____
 $=$ _____

f) $150 \div 6 + 3 \times 8 + 3 =$ _____
 $=$ _____
 $=$ _____

③ Fill in the missing numbers and operators. Use brackets to help you.

a) $3 \times (5 _ 1) \div 9 = 2$

b) $11 - (4 \div 2) \times 5 + _ = 4$

c) $24 - (16 _ 4) \times 2 + 3 = 19$

d) $20 \div _ + 12 = 17$

e) $4 \times _ + 18 \div 2 = 33$

f) $(17 _ 2) \div 5 + 6 = 9$



Order of Operations (A) - Answers

① Calculate each expression.

$$\begin{aligned} \text{a) } (4 \times 3) + 2 &= \underline{12 + 2} \\ &= \underline{14} \end{aligned}$$

$$\begin{aligned} \text{b) } (5 \times 4) - 2 &= \underline{20 - 2} \\ &= \underline{18} \end{aligned}$$

$$\begin{aligned} \text{c) } 16 - (2 \times 7) &= \underline{16 - 14} \\ &= \underline{2} \end{aligned}$$

$$\begin{aligned} \text{d) } 3 \times (15 - 5) - 8 &= \underline{3 \times 10 - 8} \\ &= \underline{30 - 8} \\ &= \underline{22} \end{aligned}$$

$$\begin{aligned} \text{e) } 70 - (9 + 4) \times 5 &= \underline{70 - 13 \times 5} \\ &= \underline{70 - 65} \\ &= \underline{5} \end{aligned}$$

$$\begin{aligned} \text{f) } 60 - (55 - 2) + 10 &= \underline{60 - 53 + 10} \\ &= \underline{7 + 10} \\ &= \underline{17} \end{aligned}$$

② Put brackets around the sums to be calculated first and then solve each expression.

$$\begin{aligned} \text{a) } 2 + (8 \times 2) &= \underline{2 + 16} \\ &= \underline{18} \end{aligned}$$

$$\begin{aligned} \text{b) } (5 \times 2) - 9 &= \underline{10 - 9} \\ &= \underline{1} \end{aligned}$$

$$\begin{aligned} \text{c) } 7 - (2 \times 1) - 4 &= \underline{7 - 2 - 4} \\ &= \underline{5 - 4} \\ &= \underline{1} \end{aligned}$$

$$\begin{aligned} \text{d) } 35 + (7 \times 4) - 24 &= \underline{35 + 28 - 24} \\ &= \underline{63 - 24} \\ &= \underline{39} \end{aligned}$$

$$\begin{aligned} \text{e) } 65 + (64 \div 8) &= \underline{65 + 8} \\ &= \underline{73} \end{aligned}$$

$$\begin{aligned} \text{f) } 30 + (85 \div 5) + 16 &= \underline{30 + 17 + 16} \\ &= \underline{47 + 16} \\ &= \underline{63} \end{aligned}$$

③ Fill in the missing numbers and operators. Use brackets to help you.

$$\text{a) } 2 + (7 \underline{\times} 6) = 44$$

$$\text{b) } 7 \times (4 \underline{-} 1) = 21$$

$$\text{c) } 18 \underline{-} (2 \times 3) = 12$$

$$\text{d) } (3 \times \underline{3}) - 5 = 4$$

$$\text{e) } 38 - (2 \times \underline{6}) = 26$$

$$\text{f) } (12 \div \underline{4}) + 4 = 7$$



Order of Operations (B) - Answers

① Calculate each expression.

$$\begin{aligned} \text{a) } (7 \times 2) - 9 &= \underline{14 - 9} \\ &= \underline{5} \end{aligned}$$

$$\begin{aligned} \text{b) } 2 \times (7 - 5) &= \underline{2 \times 2} \\ &= \underline{4} \end{aligned}$$

$$\begin{aligned} \text{c) } 1 \times (5 - 5) &= \underline{1 \times 0} \\ &= \underline{0} \end{aligned}$$

$$\begin{aligned} \text{d) } (9 \div 9) \times 8 + 7 &= \underline{1 \times 8 + 7} \\ &= \underline{8 + 7} \\ &= \underline{15} \end{aligned}$$

$$\begin{aligned} \text{e) } 7 - (8 \div 2) + 1 &= \underline{7 - 4 + 1} \\ &= \underline{3 + 1} \\ &= \underline{4} \end{aligned}$$

$$\begin{aligned} \text{f) } (76 + 16) - 11 - 3 &= \underline{92 - 11 - 3} \\ &= \underline{81 - 3} \\ &= \underline{78} \end{aligned}$$

② Put brackets around the sums to be calculated first and then solve each expression.

$$\begin{aligned} \text{a) } 34 + (5 \times 15) &= \underline{34 + 75} \\ &= \underline{109} \end{aligned}$$

$$\begin{aligned} \text{b) } (14 - 5) \div (9 - 6) &= \underline{9 \div 3} \\ &= \underline{3} \end{aligned}$$

$$\begin{aligned} \text{c) } (2 \times 3) + 5 - 9 &= \underline{6 + 5 - 9} \\ &= \underline{11 - 9} \\ &= \underline{2} \end{aligned}$$

$$\begin{aligned} \text{d) } (24 - 6) \div (2 \times 3) &= \underline{18 \div (2 \times 3)} \\ &= \underline{18 \div 6} \\ &= \underline{3} \end{aligned}$$

$$\begin{aligned} \text{e) } (12 \times 4) + (6 \times 3) - (15 \times 2) \\ &= \underline{48 + 18 - 30} \\ &= \underline{36} \end{aligned}$$

$$\begin{aligned} \text{f) } (150 \div 6) + (3 \times 8) + 3 &= \underline{25 + 24 + 3} \\ &= \underline{49 + 3} \\ &= \underline{52} \end{aligned}$$

③ Fill in the missing numbers and operators. Use brackets to help you.

$$\text{a) } 3 \times (5 \underline{+} 1) \div 9 = 2$$

$$\text{b) } 11 - (4 \div 2) \times 5 + \underline{3} = 4$$

$$\text{c) } 24 - (16 \underline{\div} 4) \times 2 + 3 = 19$$

$$\text{d) } 20 \div \underline{4} + 12 = 17$$

$$\text{e) } 4 \times \underline{6} + 18 \div 2 = 33$$

$$\text{f) } (17 \underline{-} 2) \div 5 + 6 = 9$$

