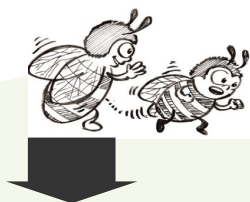## Maze

Color green all the cells where the sum of the two numbers is **20** and you will help the bees to find the hive.

Each time you find a sum equal to **20**, say out loud the two addends.

10 + 10	8 + 11	17 + 3	17 + 3	4 + 16	13 + 7	1 + 19	9 + 11
14 + 6	7 + 14	6 + 14	12 + 6	2 + 14	10 + 12	14 + 7	16 + 4
18 + 2	7 + 13	19 + 1	13 + 9	3 + 17	12 + 8	15 + 5	11 + 9
2 + 16	8 + 19	15 + 6	5 + 16	5 + 15	10 + 11	11 + 19	15 + 15
3 + 10	17 + 4	7 + 13	6 + 14	8 + 12	9 + 15	12 + 9	19 + 9
15 + 5	8 + 12	19 + 1	3 + 18	6 + 16	13 + 7	14 + 6	9 + 11
4 + 16	19 + 4	17 + 5	16 + 8	13 + 15	18 + 2	8 + 2	17 + 3
3 + 17	1 + 19	11 + 9	5 + 15	2 + 18	16 + 4	7 + 15	12 + 8
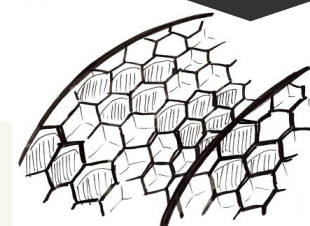
The Four Operations

1 $2 \cdot 9 \div \bigcirc + 4 - 1 = 9$

2 $1 \cdot 9 \div 3 + 7 - \bigcirc = 5$

3 $2 \cdot \bigcirc \div 1 + 8 - 6 = 16$

4 $\bigcirc \cdot 8 \div 2 + 5 - 9 = 8$
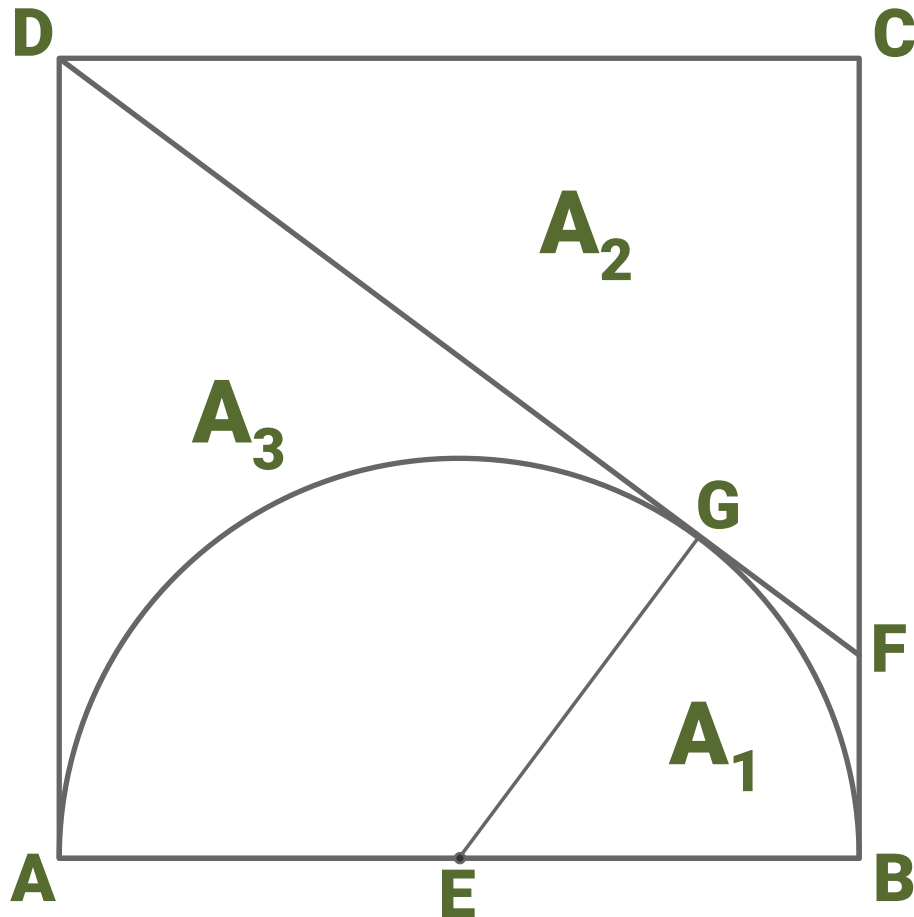
5 $4 \cdot 6 \div 8 + \bigcirc - 1 = 11$

Five different digits should appear to the left of each equality. Complete each of the expressions to make them true.

Note: The operations must be performed from left to right.

Quick Geometry

D C

A_2

A_3

G

F

A_1

A   E   B

ABCD square

$\overline{DF}$ tangent to the semicircle of center **E** at **G**.

A_1: area of quadrilateral **EBFG**

A_2: area of $\triangle$**CDF**

A_3: area of quadrilateral **AEGD**

Determine $A_1 : A_2 : A_3$.