

Connection between multiplication and division. Coordinates.

1 **Check** the result of the equations that Foxy Tail solved.

$$462 - x = 75$$

$$x = 383$$

$$y - 118 = 856$$

$$y = 974$$

$$z - 145 = 238$$

$$z = 383$$

Check:

2 Open up the parentheses:

$$95 + (3 + 11) =$$

$$52 - (45 + 6) =$$

$$95 + (a + 4) =$$

$$56 - (h + 15) =$$

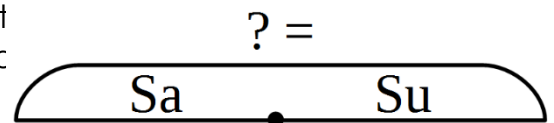
$$58 + (65 - 47) =$$

$$24 - (11 - 6) =$$

$$79 + (14 + b) =$$

$$d - (16 - f) =$$

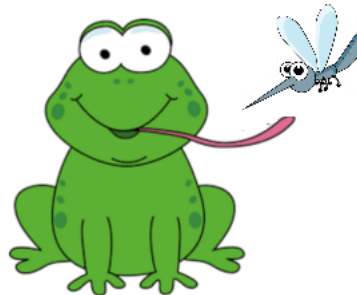
3 **A.** Mr. Frog has caught m mosquitoes on Sat
mosquitoes on Sunday. How many mosquito
weekend?



B. Mr. Frog has caught m mosquitoes on
Saturday. On Sunday he has caught n
more mosquitoes than on Saturday. How
many mosquitoes did he catch over the
weekend?



C. Mr. Frog has caught m
mosquitoes on Saturday. This
is n more mosquitoes than he
has caught on Sunday. How
many mosquitoes did he
catch over the weekend?

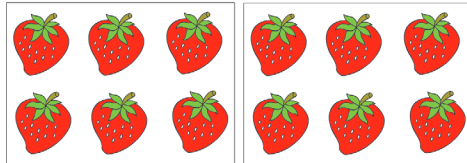


The connection between multiplication and division.

Multiplication and division are very closely related. They are reverse operations and both have to do with groups of equal size. You could say division is “backwards” multiplication. We get both a **multiplication**

Two **groups of 6** makes 12.

$$2 \times 6 = 12$$



12 divided into **groups of 6** is two groups.

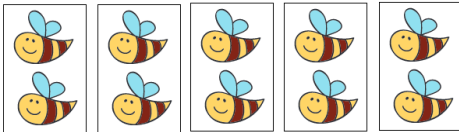
$$12 \div 6 = 2$$

fact and a **division fact** from the same picture:

4

d. Five **groups of 2** is ____.

$$\underline{\quad} \times 2 = \underline{\quad}$$

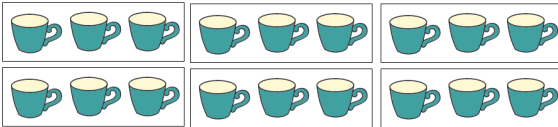


____ divided into **groups of 2** is ____ groups.

$$\underline{\quad} \div 2 = \underline{\quad}$$

c. ____ **groups of 3** is ____.

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

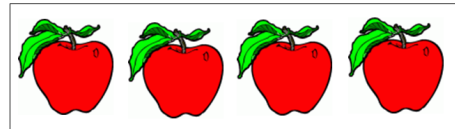


____ divided into **groups of 3** is ____ groups.

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

b. One **group of 4** is 4.

$$\underline{\quad} \times 4 = \underline{\quad}$$

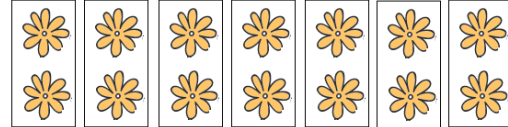


____ divided into **groups of 4** is ____ groups.

$$\underline{\quad} \div 4 = \underline{\quad}$$

d. ____ **groups of** ____ is ____.

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$



____ divided into **groups of 2** is ____ groups.

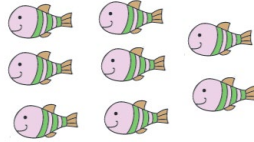
$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

5 Make groups. Then write the division and multiplication facts that the pictures illustrate.

a. Make groups of four.

___ × 4 = 8

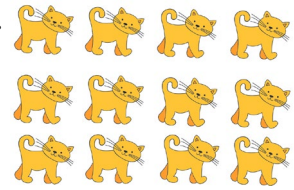
8 ÷ 4 = ___



Make groups of two.

___ × 2 = ___

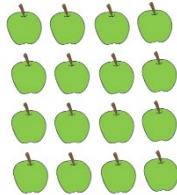
___ ÷ 2 = ___



c. Make groups of four.

___ × 4 = ___

___ ÷ 4 = ___



Make groups of six.

___ × 6 = ___

___ ÷ 6 = ___



6

Fill missing numbers in multiplication-division table.

	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2		6	8		12	14		18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8		16	20	24	28	32	36	
5	5	10	15	20	25	30		40	45	50
6	6		18	24		36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	
8		16	24	32	40	48	56	64	72	80
9	9		27	36	45	54	63	72	81	90
10		20	30	40	50	60	70	80		100

Use multiplication-division table to calculate:

5 × 9 = ___

27 ÷ 9 = ___

7 × 2 = ___

63 ÷ 7 =

56 ÷ 8 = ___

18 ÷ 3 = ___

6 × 4 = ___

3 × 3 =

$3 \times 5 = \underline{\quad}$

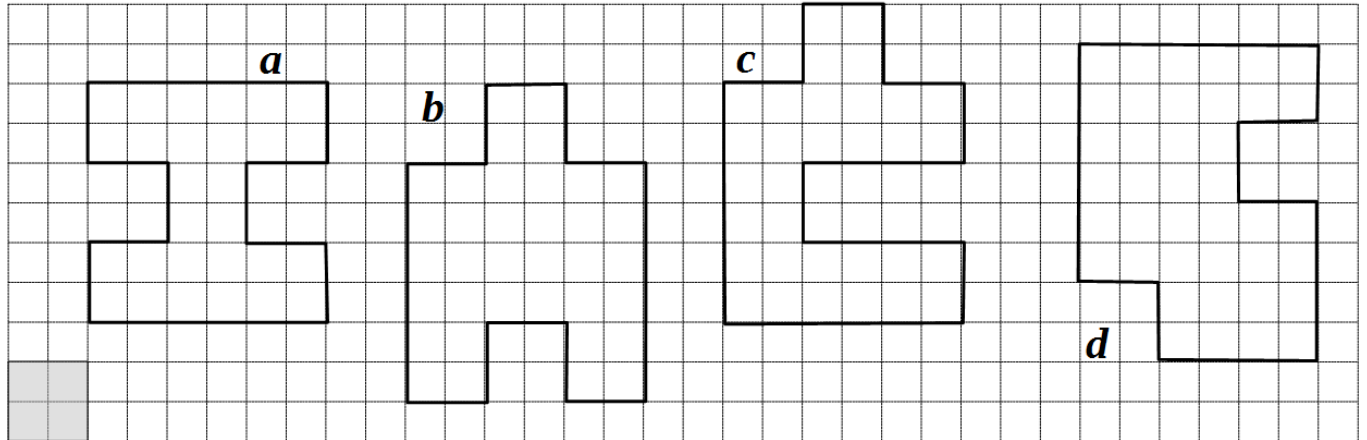
$32 \div 4 = \underline{\quad}$

$9 \times 6 = \underline{\quad}$

$49 \div 7 = \underline{\quad}$

7
below?

What would be the best strategy to count cells in each of the shapes



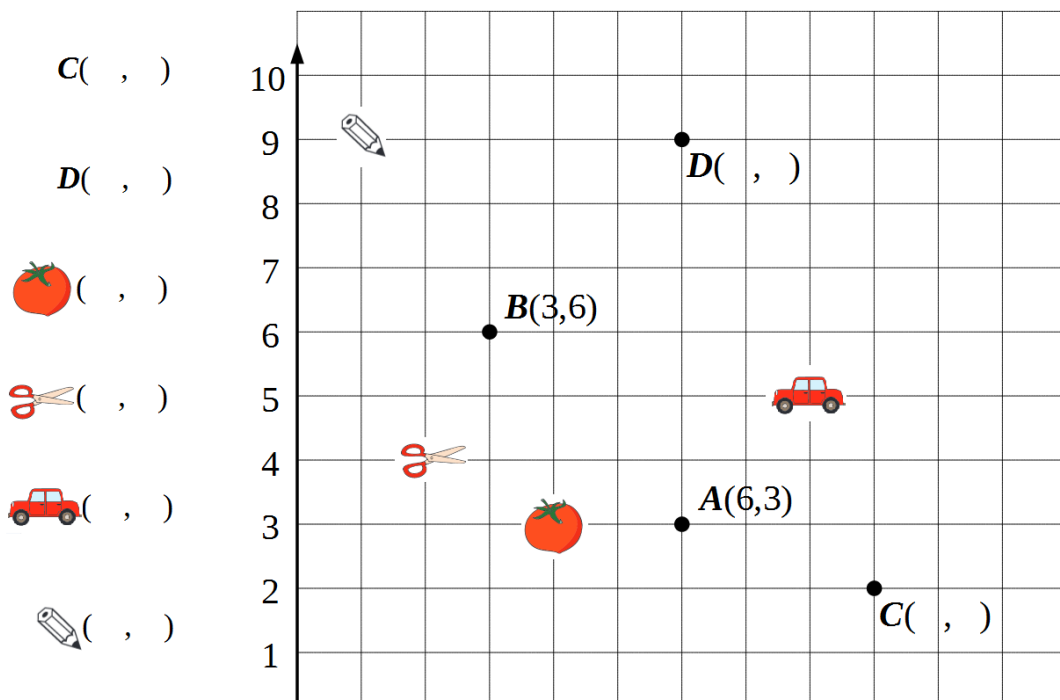
How did you use division for cell counting? _____

How did you use multiplication in this strategy? _____

Coordinates.

On maps and graphs, it is common to have a pair of numbers to show where a point is: the first number shows the distance along the horizontal direction from the zero point and the second number shows the distance along the vertical direction from the same zero point.

8 Compare the coordinates of points **A** and **B**. Find coordinates of the other objects.



8

Write only A's to balance each scale.

