Name _____ **Date** _____

End of unit 5 test

1 The students in a class stand in 4 rows.

   There are 9 students in each row.

   How many students are in the class?

2 Write the missing numbers in this multiplication grid.

×	3	☐	5
2	6	8	10
4	12	16	☐
☐	18	☐	30

3 Are the following number sentences true or false.

   Give a reason for each answer.

   a $6 \times 7 = 7 \times 2 \times 3$

   b $7 \times 6 = 3 \times 7 + 7$

4   Δ and $\square$ represent two different whole numbers.

     $\Delta \times \Delta = 25$

     $\Delta \times \Delta \times \Delta = \square$

     What are the values of Δ and $\square$?

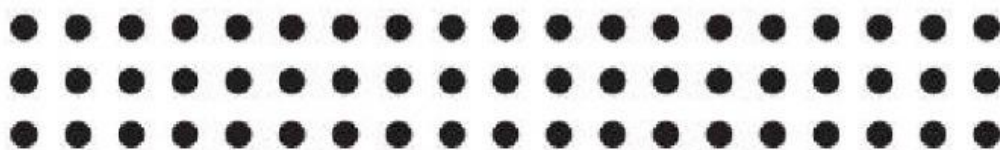 $\Delta =$ _____ $\square =$ _____

5   Look at the following statement.

> When you multiply a 2-digit number by a
> 1-digit number the product is a 3-digit number.

     Is the statement always, sometimes or never true?

     Explain your answer.

6   Darius calculates 19×3 using an array. He makes an error.

     $20 \times 3 = 60$

     $60 - 1 = 59$ so $19 \times 3 = 59$

     Explain what Darius has done wrong and correct his answer.

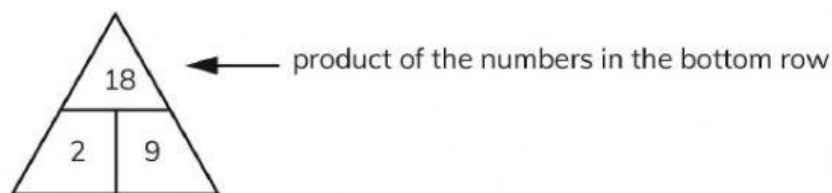7   Circle the highest number that is a factor of 30, 42 and 48.
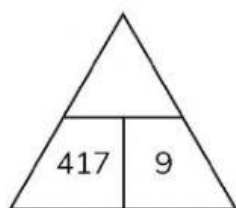
         2   3   6   8
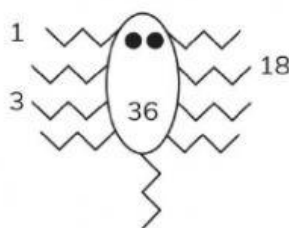
8   Here is the rule for finding numbers in a triangle.

     ← product of the numbers in the bottom row

     18 / 2 / 9

Use this rule to complete this number triangle.

Show your working.

     417 / 9

9   Complete the factor bug for 36.

     1   18
     3   36

Why does the bug have a tail?

10 Lara thinks of a whole number between 1 and 10.

     The table shows information about her number.

	Yes	No
a multiple of 2	✓	
a multiple of 3		✓
a factor of 6	✓	

What is Lara's number?