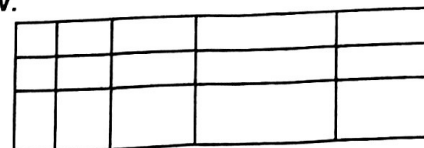


- 6  $a$  is a non-zero natural number. 700 times  $a$  equals a perfect square. The smallest possible value of  $a$  is \_\_\_\_\_ .

6 Calculate:  $\frac{29}{18} \times 4 + \frac{29}{18} \times \frac{13}{25} + \frac{37}{25} \times 1\frac{11}{18} = \underline{\hspace{2cm}}$

- 2 A pizza place offers 10 different toppings. There are \_\_\_\_\_ different 3-topping pizzas that can be created.

6 There are \_\_\_\_\_ rectangles (including squares) below.





## Lesson 7

- 3 Ella has 6 beads in different colors. She wants to string them in a line. However, 3 of them must not be put adjacent to each other. There are \_\_\_\_\_ ways to string the beads.

- 4 There are 7 students standing in a line. Student  $A$ ,  $B$ , and  $C$  must stand together with  $A$  in the middle of  $B$  and  $C$ . Student  $D$  and  $E$  cannot stand together. There are \_\_\_\_\_ ways to arrange them.

- 5 As shown below, triangle  $ABC$  is a right triangle.  $AB = 20$  and  $BC = 25$ . The area difference between  $A_1$  and  $A_2$  is \_\_\_\_\_. ( $\pi \approx 3$ )

