Multiply a 3-digit number by a 1-digit number

When we multiply 3-digit numbers, we can break them down into place-value parts to make it easier.

$328 \times 3 = ?$

$$328 \times 3 = 300 \times 3 + 20 \times 3 + 8 \times 3$$
$$= 900 + 60 + 24$$
$$= 900 + 60 + 20 + 4$$
$$= 984$$

1 Solve the following calculations.

a $321 \times 4 = ?$

_____

_____

_____

_____

b $143 \times 6 = ?$

_____

_____

_____

_____

c $217 \times 3 = ?$

_____

_____

_____

_____

2 Jabo buys 7 boxes of juice. Each box holds 120 ml juice. How many millilitres did Jabo buy in total?

_____

3 A group of Grade 5 boys booked into a camping site. The table below shows the cost of the camping site.
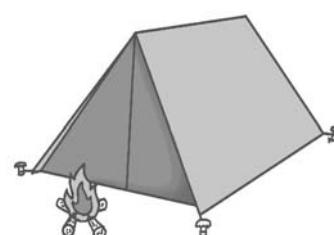
Number of nights	2	3	4	5	6	10
Cost in (Rand)	250	375		625		1 125

a What is the cost per night for the camping site?

_____

b Complete the table.

c Andrew calculated it would cost them R880 to stay for 8 nights. Is he correct? Explain your answer. _____

_____

4 One metre of material costs R24. The seamstress needs $3\frac{1}{2}$ metres of material. What will the total cost be?

_____

Let's Practise

Dividing a 3-digit number by a 1-digit number

When dividing, we can use a clue board to help us.

431 ÷ 7 = ?

7 × **60** = 420	431 – 420 = 11
7 × **1** = 7	11 – 7 = 4
431 ÷ 7 = 61 remainder 4	

Clue board
7 × 1   = 7
7 × 10 = 70
7 × 50 = 350
7 × 60 = 420

1   Use a clue board to help you calculate the following.

   a   356 ÷ 9 = ?   **b**   489 ÷ 6 = ?

   _____   _____

   _____   _____

2   There are 7 players in a netball team. How many teams can a school make if there are 161 girls who want to play netball?

_____

_____

3   The school has R904 to buy 8 volleyball nets. What is the maximum price the school can pay per net?

_____

_____

4   Granny has R987. She wants to share it equally among her 4 grandchildren. How much money will each grandchild receive?

_____

_____

5   There are 588 cows on the farm. The farmer wants to divide the cows equally among 7 paddocks. How many cows should go in each paddock?

_____

_____

Let's **Practise**