Multiply decimals to hundredths using concrete models or drawings and relate the strategy to a written method/algorithm and understand the reasoning used. CCSS.MATH.CONTENT.5.NBT.B.7 | G5M4C22E1

A team has been recruited to monitor the health of wild animals.

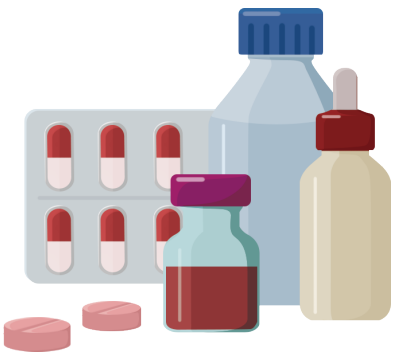
1 The total number of snakes in the forest is represented by 56 × 12. Write the total number of snakes in the boxes given below.

	50	6
10		
2		

Total number of snakes =

500 + ☐☐ + ☐☐☐ + 12 = ☐☐☐

2 To calculate the weight of some medicines, a member of the team solves the multiplication of 7.2 × 2.7. The steps for the multiplication are given below. Check the box(es) with an error.



☐ Step 1: 504

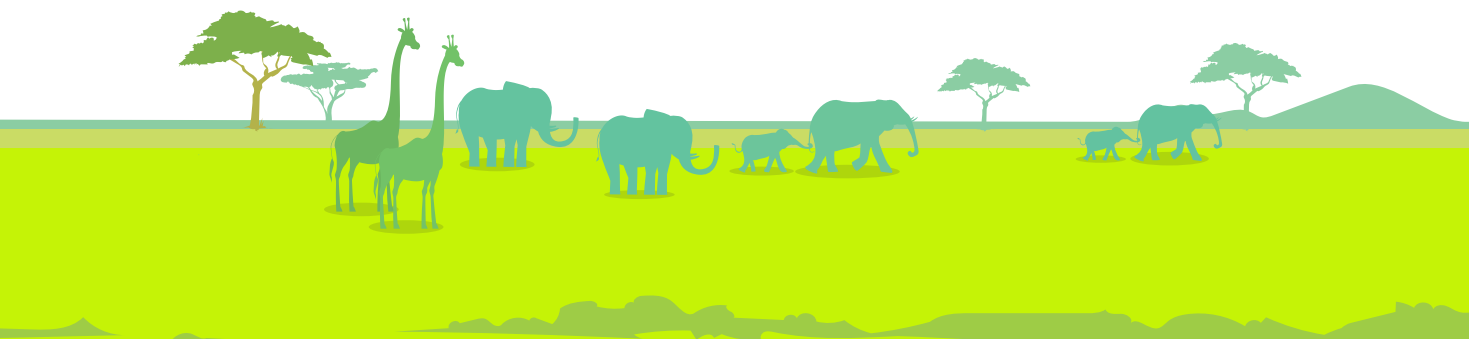
☐ Step 2: + 1520

☐ Step 3: 20.24

7.2
× 2.7

504
+1520

20.24



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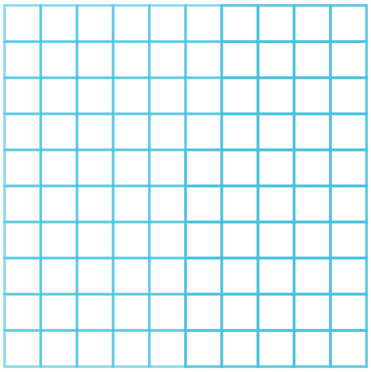
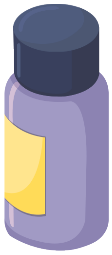
3 The syrup used to treat animals is 0.18 × 3 mL. Check the correct value of the syrup. Color the grid **red** to represent the total amount of syrup used.

Note: Consider the whole value of the grid as 1 mL. Therefore the value of each box will be 0.01 mL.





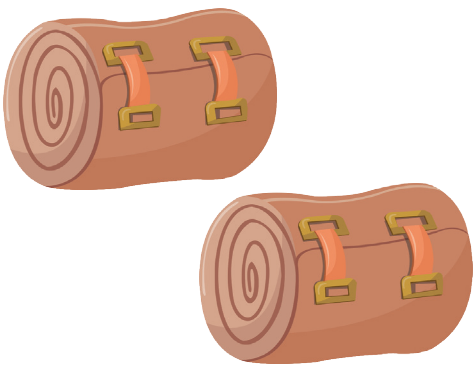
Syrup

Total amount of syrup:

☐ 0.54 mL ☐ 0.85 mL ☐ 0.95 mL

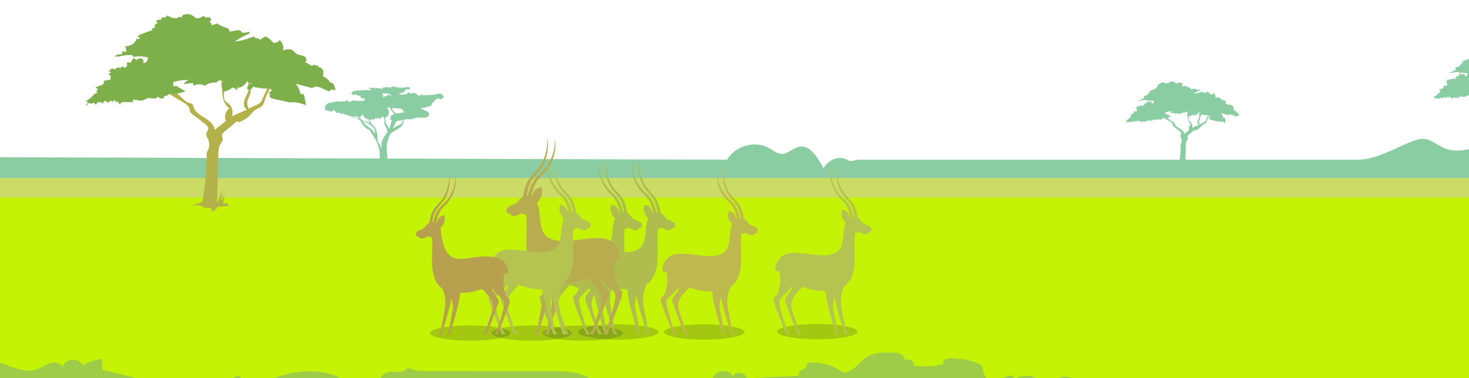
A The team buys a 2.5 ft long bandage. If the price of 1 ft is $60.5, then what is the cost of the bandage? Write your answer in the boxes given below.

Hint: Multiply 60.5 and 2.5



$$\begin{array}{r} 60.5 \\ \times\ 2.5 \\ \hline \square\square\square\square \\ +\ \square\square\square\square\square \\ \hline \end{array}$$

Total cost of the bandage = $ ☐☐☐ . ☐☐



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The recruited team monitors the quantity and quality of the food and manages the food timings of the wild animals.

1 Calculate 29 × 99 to find the total area (in sq yd) covered by CCTV cameras. Write your answer in the boxes below.

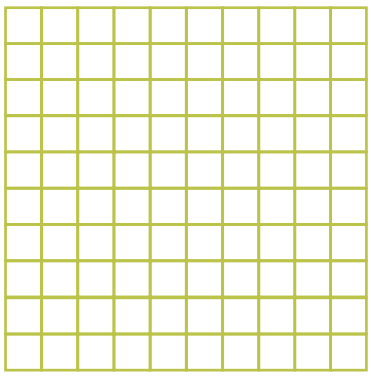
	90	9
20		
9		

Total area covered by CCTV cameras = ☐ + 180 + 810 + ☐

= ☐ sq yd

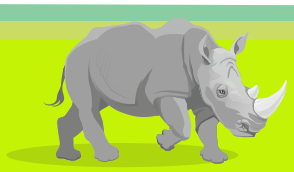
2 Find the product of 0.12 and 3 to calculate the total amount of meat (in tons) required for the good health of the lions. Check the correct box. Color the grid **green** to represent the total amount of meat needed.

Hint: Consider the whole value of the grid as 1 ton. Therefore value of each box will be 0.01 ton.



Total amount of meat:

☐ 0.36 ton ☐ 0.85 ton ☐ 0.95 ton



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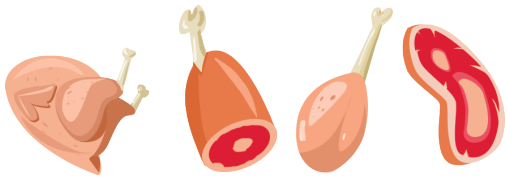
3 The cost of meat at store A is $64. But store B sells it at $16, which is 0.25 times the cost at store A. Is the above statement correct? Check the correct box.



The above statement is:

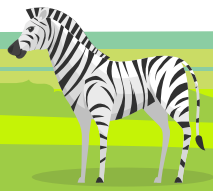
☐ Correct ☐ Incorrect

A For the betterment of cows' health, 3.56 lb of nutrient rich food has been distributed every day in the sanctuary. If the price of 1 lb is $32.5, then what is the cost of nutrient rich food? Write your answer in the boxes given below.

Hint: Decimal has to be placed after 3 digits from the right in the final product value.

$$\begin{array}{r} 3.56 \\ \times\ 32.5 \\ \hline \square\square\square\square \\ +\ \square\square\square\square \\ +\ \square\square\square\square\square\square \\ \hline \end{array}$$

Total cost of the food = $ ☐☐☐ . ☐☐☐



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To make sure the wild animals get all the required nutrients in their diet, the food needs to be customized. Let's make a dish and pack it for them.

Step 1: Check any two ingredients to make the dish. The quantity of each ingredient is given below.

Animal cookies

☐

0.39 lb per packet

Rice husk

☐

0.46 lb per packet

Rice

☐

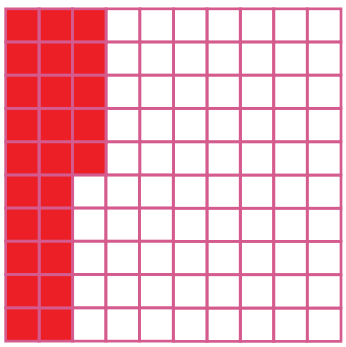
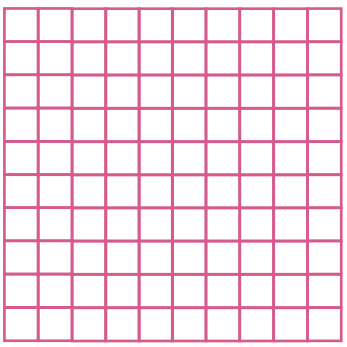
0.15 lb per packet

Step 2: Check the number of water drums required to make the food.

☐ 2

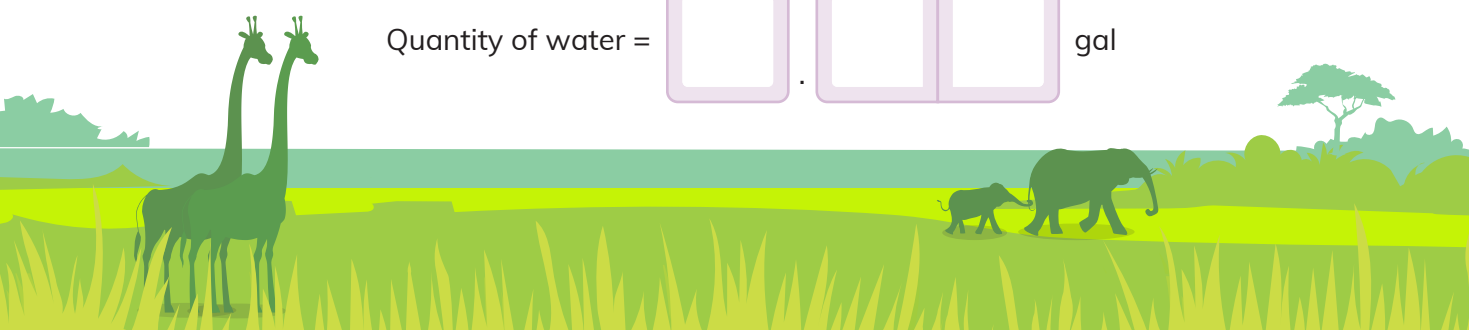
☐ 3

Step 3: Calculate the quantity of water by multiplying **Number of water drums × 0.25 gal.** Color the grid for quantity of water **red**.

☐ Number of water drums ×  Whole value of the grid = 1 gal =  Whole value of the grid = 1 gal

Quantity of water

Quantity of water = ☐ . ☐☐ gal



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Step 4: Calculate the total amount of all the ingredients you chose. Write your answers in the boxes given below. Write "C" for animal cookies, "H" for rice husk, and "R" for rice.
Guideline: Choose the number of packets, either 2 or 3.

Ingredients	Packets	Amount per packet (in lb)	Total amount (in lb)
		.	.
		.	.

Step 5: The prepared food must be packed. Color the grids **green**.
Guideline:
- The number of food packets should be between 3 to 5, inclusive of both. The amount of food in a packet would be in between 0.50 to 0.60 lb.

(Chosen values) (Calculate these values)

Whole grid = 1 lb

Whole grid = 1 lb | Whole grid = 1 lb | Whole grid = 1 lb

Number of food packets × Amount per food packet = Total amount

Total amount: . lb

Number of whole grid colored: