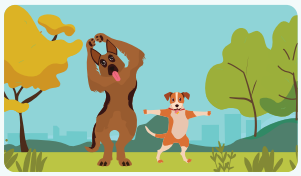
Learning Outcome:
Multiply or divide to solve word problems on multiplication and division using visual models and writing an equation.
4.OA.A.2

Fenix and Murphy went to a fun zone. They participated in the following games:


Jumping Jacks


Swimming


Catch

1 **Fenix did 9 rounds of jumping jacks. If each round fetched him 5 points, how many points did he score?**

Number of rounds done = ☐ Points for each round = ☐ Total points scored by Fenix = ☐ × ☐ = ☐	Draw an array

2 **Murphy did 7 rounds of jumping jacks. If each round fetched him 5 points, how many points did he score?**

Number of rounds done = ☐ Points for each round = ☐ Total points scored by Murphy = ☐ × ☐ = ☐	Draw an array

3 **Fenix managed to do 6 rounds of swimming. If each round fetched him 12 points, how many points did he score?**

Number of rounds cleared = ☐ Points for each round = ☐ Total points scored by Fenix = ☐ × ☐ = ☐	Draw the tape diagram

4 **Murphy did 5 rounds of swimming and each round fetched him 12 points. Calculate the total number of points scored.**

Number of rounds cleared = ☐ Points for each round = ☐ Total points scored by Murphy = ☐ × ☐ = ☐	Draw the tape diagram

5 **Murphy scored a total of 35 points in catch. If each round fetched him 7 points, how many rounds did he complete?**

Total points scored = ☐ Points for each round = ☐ Number of rounds cleared = ☐	Draw the tape diagram

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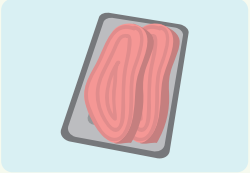
4.OA.A.2

Fenix and Murphy went to a pet supplies store to purchase food items. Here are the items available.

Chew bones


Meat

Biscuits

1 **Fenix bought 8 packets of chew bones. If each packet costs $7, how much would he have to pay?**

Number of packets of chew bones = ☐ Cost per packet ($) = ☐ Amount to be paid by Fenix ($) = ☐ × ☐ = ☐	Draw the tape diagram

2 **Murphy buys a packet of meat for $9 every day. How much would he spend in a week?**

Number of packets in a week = ☐ Cost per packet ($) = ☐ Amount to be paid by Murphy ($) = ☐ × ☐ = ☐	Draw the tape diagram

3 **Fenix spends $63 for buying some packets of meat. If each packet of meat costs $9 then how many packets did he buy?**

Amount paid by Fenix ($) = ☐ Cost per packet ($) = ☐ Number of packets bought by Fenix = ☐	Draw the tape diagram

4 **Murphy wants to hide a biscuit packet from Fenix. The pack is 15 cm in length and 10 cm in width. Calculate the area of the packet.**

Length of the biscuit packet (cm) = ☐ Width of the biscuit packet (cm) = ☐ Area of the packet (sq cm) = ☐ × ☐ = ☐	Draw a rough sketch and mention the dimensions.

5 **After shopping, Fenix and Murphy ran a distance of 30 meters from the store to reach home. Represent the distance they ran in centimeters.**

30 meters = ☐ × ☐ = ☐ centimeters

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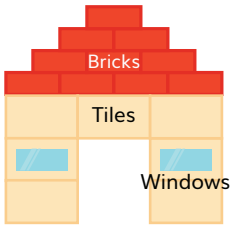
4.OA.A.2

Murphy has a beautiful dog house made of bricks, tiles, and windows. A brick costs $2, a tile costs $11, and the cost of a window is $9. Calculate the total money spent on each item.

Murphy Mansion



Material	Number of pieces	Cost per piece	Tape diagram	Total cost
Bricks				
Tiles				
Windows				

Don't forget Fenix!

Would you design a home for him too?
What name would you like to give to his home?

Fenix is a bigger dog so he might need a slightly bigger house than Murphy. And he would prefer more fresh air, so he probably might need more windows as well. Let's design a home for Fenix using the same items and calculate the total cost. Cost of each item is the same as given above.

Material	Number of pieces	Cost per piece	Tape diagram	Total cost
Bricks				
Tiles				
Windows				