Logo

Description automatically generated with low confidence**Learning Objective**

**We are learning how to solve problems that involve finding unit fractions (halves, thirds, quarters, fifths) of a set of objects.**

**Challenge 1**

**Draw counters in the bar models below to solve the following problems.**

1) A group of 10 smooth-coated otters were hunting rats in a rice field. of the otters in the group managed to catch a rat. **How many otters caught a rat?**

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| --- | --- |
|  |  |

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) A fisherman trained a smooth-coated otter to chase fish into his net. The otter caught a total of 10 fish. The fisherman gave the otter of the fish that it caught.

**How many fish was the otter given?**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |



Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

3) Sadly, 16 otter pups were discovered in a bag at an airport. They were going to be sold as pets. of the pups were less than 3 months old.

**How many pups were less than 3 months old?**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Challenge 2**

**Solve the following problems by dividing the bars and drawing counters.**

4) A family of giant otters caught a total of 18 fish in the Amazon River.

of the fish were piranhas.

**How many fish did the giant otter family catch that weren’t piranhas?**

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| --- |
|  |

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

5) A sea otter mother swam 30 metres underwater before coming to the surface for air. Her pup only managed to swim of this distance underwater.

**How many metres further than the pup did the mother otter swim underwater?**

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| --- |
|  |

Answer: \_\_\_\_\_\_\_\_\_\_\_\_

7) One morning, an otter expert found 12 otter spraints (otter droppings that often contain fish bones and scales) on the bank of a river. This was of the total number of otter spraints that the otter expert found that day.

**How many otter spraints did the otter expert find?**

|  |
| --- |
|  |

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Challenge 3**

In Singapore, a family of smooth-coated otters discovered a pond that had 25 koi carp fish swimming around in it.

The mother otter (sow) dived in first and ate of the koi carp that were in the pond.

The father otter (boar) dived in next and ate of the fish that remained in the pond.

Finally, the eldest pup dived in and ate 5 fish.

**How many fish were left in the pond?** Answer: \_\_\_\_\_\_\_\_\_\_\_\_

**Use this space to show your working out.**