



Name: \_\_\_\_\_

Class: \_\_\_\_\_ Date: \_\_\_\_\_

## Fun with Sums

*An extension of "The Bajau people's amazing adaptation to the seas"*

The Bajau people's diving ability is unlike most humans'. They can stay underwater longer than some sea mammals such as sea otters. **"The Bajau people's amazing adaptation to the seas"** (page 14, *What's Up* March 2019) tells a truly amazing story about this. Read it before completing the following sums. Use the other side of this worksheet for your calculations.

1. Circle the correct answer. Given that the height of a 20-storey building is 60 m, find the average height of an apartment in Singapore is
  - a. 139cm
  - b. 300cm
  - c. 1,000m
  - d. 6m
2. During an average dive, a California sea otter holds its breath underwater for 60 seconds and goes to a depth of 6m. On the surface, it swims at an average speed of 5.4 km/h.

Calculate:

- a) The minimum total distance travelled by a sea otter in an average dive and back up.

ANSWER: \_\_\_\_\_

- b) The minimum average dive speed of a sea otter.

ANSWER: \_\_\_\_\_

- c) The average speed of a sea otter swimming at the surface in m/s. Compare this with its minimum average dive speed.

ANSWERS: \_\_\_\_\_

3. A Bajau child practices freediving with only a pair of goggles. While playing in the water, three children dived into the sea at the same time. They came up for breath every few minutes and then dived again many times. One came up every 3 minutes, the second came up every 2 minutes, and the third came up every 4 minutes. They stopped the diving session when the three of them surfaced together.

Calculate:

- a) The duration after which they stopped the diving session.

ANSWER: \_\_\_\_\_

- b) The number of times each of the three children surfaced for air during that time.

ANSWER: \_\_\_\_\_