MATHAROO

helping kids jump into maths

Student Name: _____

Grade:_____   Date:_____

1. In "**FROZEN 11**", Elsa sings three new songs – "*Into the Unknown*" (3 min 14 sec.), *"Show Yourself"* (4 min 20 sec.), *"When I Am Older"* (1 min 51 sec.) and Anna sings *"The Next Right Thing"* (3 min 35 sec.). The whole movie runs for 1 hour 43 minutes. What **FRACTION** of that movie length is spent on those 4 songs? (Helpful hint: Change all times to seconds, then calculate.)

2. A new TV show, "**PLATE OF ORIGIN**" (nicknamed "**POO**"), has been scheduled. But poor ratings of cooking shows recently meant the TV channel has cut the number of episodes of "POO" from 32 to 20. What **FRACTION** of the original number of episodes has been cut? Express your answer in simplest terms.

3. Two friends, Isaac and Ian, each get jobs during the school holidays, earning a total of $300 between them. Then, if Isaac gives Ian $15, both boys have the same amount. How much did each of them earn from their jobs?

4. Meg's mum bought a 3-litre bottle of full-cream milk. The family promptly drank 30% of the milk. How much milk remained in the bottle? Answer in litres and millilitres.

5. Roger was awarded a swimming certificate, measuring 16 cm x 20 cm. He put it into a frame, creating a 3 cm border all around the certificate. What was the **PERIMETER** of that frame?

6. The price of overseas holidays is currently falling. A 6-day package is selling for $2,300, an 8-day package for $5,800 and a 12-day package for $8,300. Which of these holiday packages offers the **CHEAPEST** cost per day? Put the 3 packages in order from cheapest per day to most expensive.

7. A new game for Android and iPhone users, called "**FAUCET**", scored well from a reviewer, getting a score of 4 stars out of a possible 5. A different game – "**BANANA KONG**" – scored just 1½ stars out of a possible 5. Change each of those scores into a percentage of a perfect 5 stars.

8. **Open-Ended Question:** The answer is $\frac{7}{11}$. What **MIGHT** the question possibly be? Give 3 possibilities.