Seaweek
Maths Challenge Cards

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1. Longfin eels can only be kept if they are longer than 58cm otherwise they need to be released back into the water. A fully-grown longfin eel can grow to about 1m. Jose caught five longfin eels. He kept four and released one. All the eels were a decimal number. What length might the eels have been?
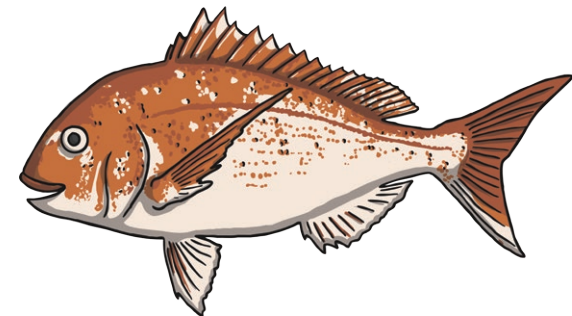
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2. Roger went for a walk when the hands on the clock made an obtuse angle. What might the time have been?

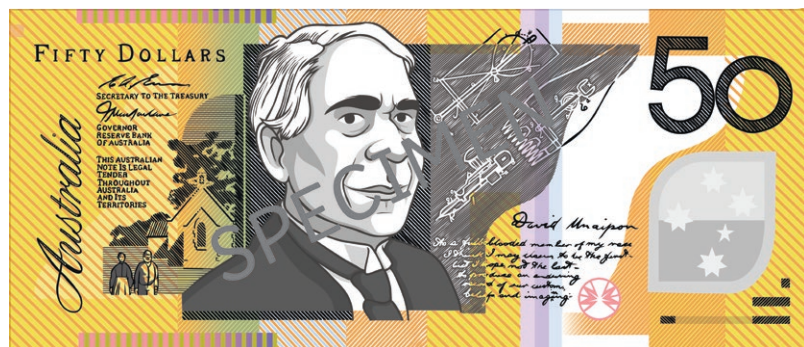3. The difference between two fish Ted caught was 7.86cm. What length might the fish have been?

4. Bounmee bought new fishing equipment for $50. What possible combinations of coins and notes could he have used?
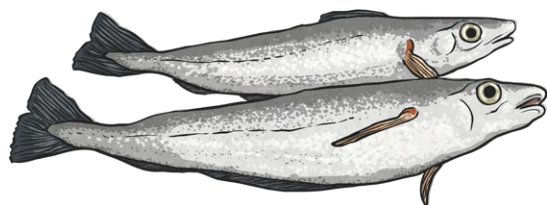
5. Nermeen was catching small whitebait in a net. She wrote down an equation to add the number of whitebait she caught the first time and second time. Unfortunately, some of the numbers were smudged by the water. What could the missing numbers be?

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\begin{array}{r}
3\ \square\ 5 \\
+\ 2\ \square\ \square \\
\hline
\square\ 4\ 2
\end{array}
$$

6. Keo cannot remember how many fish he caught but he remembered that 40% of the fish were flathead and 25% were whiting. How many bream might there have been? Justify your answer.

7. Draw a map of the island using the description below. Design a key for your map.

It is a square-shaped island with rounded corners. In the north-west, there is a mountain range with a river running from the top of the mountains to the south-east of the island. There is a large forest in the west and below this, there is a small lake. In the north-east, there are a few houses. There is a pier next to the beach in the south of the island. In the middle of the island, there is a shop, post office, police station and hospital. There are more houses above the town centre.
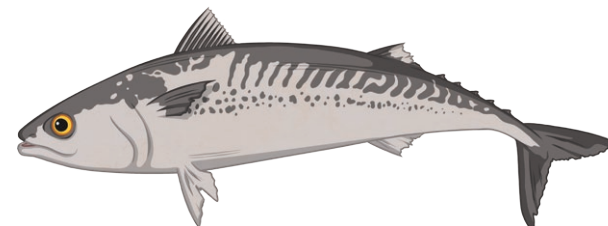
8. Nick measured a rectangular section of the beach which had an area of 32m². Draw all the possible shapes thinking about the lengths of each side.
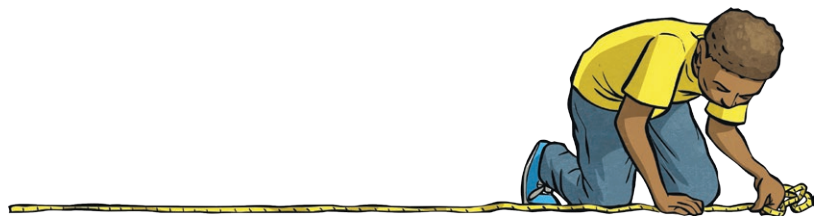
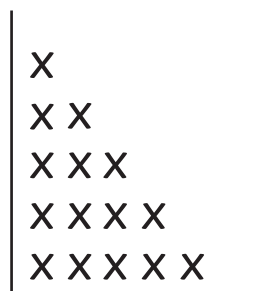9. 8 people went fishing. The median number of fish caught was 6; the mean was 5. How many fish may have been caught by each person?

10. Tim told Astrid that the probability of an event happening was 75%. What could they be talking about?

11. What could this graph be about? What information can we learn from it?

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Answers

Card Number	Possible Answers
1	Answers will vary, for example: He kept four longfin eels measuring 0.76m, 0.87m, 0.73m, 0.62m. He released an eel measuring 0.49m
2	Answers will vary, for example: 4 o'clock and 5 o'clock.
3	Answers will vary, for example: 23.45cm and 15.59cm.
4	Answers will vary, for example: $50, 10 $5, (2 × $20) + $10, 25 × $2, 50 × $1.
5	Answers will vary, for example: 315 + 227 = 542
6	Answers will vary, for example: 40 flathead, 25 whiting and 35 bream.
7	Accept any appropriate answer which follows the description of the island.
8	Answers will vary, for example: 4m × 8m, 16m × 2m, 32m × 1m.
9	Answers will vary, for example: 1, 2, 3, 6, 6, 7, 7, 8.
10	Accept any appropriate answer.
11	Answers will vary, for example: this graph shows how many sea life were spotted on a trip to the beach.