Starry-Eyed Stan
Reasoning Cards

1 These starfish make a number sequence which goes up in ones.

11 12 14 15 16 17

Is the sequence correct?

How do you know?

2 Stan counts the number of fish at his concert.

There are 5 blue fish and 4 yellow fish.

Stan says that there are 10 fish altogether.

Is he correct?

Can you explain your answer?

3 A starfish has 5 arms.

If there are 2 starfish, there will be 10 arms altogether.
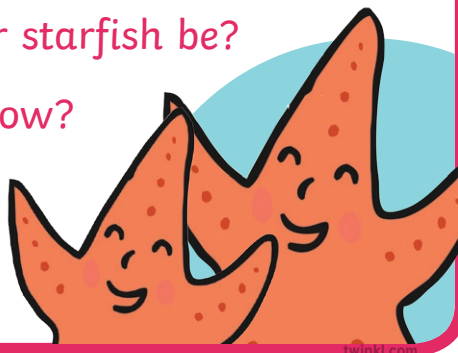
Is this correct?

How do you know?

4 3 starfish stand side by side.

The tallest starfish is 9cm tall. The shortest starfish is 4cm tall.

How tall could the other starfish be?

How do you know?

5 The pufferfish starts his music lesson at 9 o'clock. His lesson lasts for 2 hours.

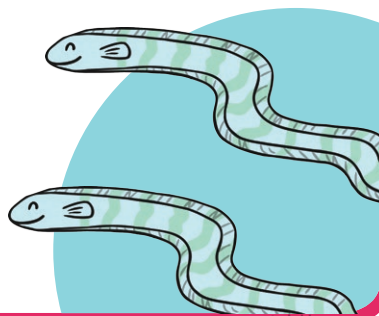The music lesson finishes at 12 o'clock.

Is this correct?

How do you know?

6 There are an even number of eels at Stan's concert.

There are more than 15 eels, but less than 21 eels.

How many eels could be at Stan's concert?

7 Drumsticks cost 10p each.

Could the octopus buy 2 drumsticks with the money he has?

Will he have any money left over?

8 Jay thinks of a number. She says if you add 8 to it, the answer is 15.

What is Jay's number?

How do you know?

9 Stan finds these numbers hanging in the cave.

3 **4** **5**

He says he can make 6 two-digit numbers, just using these 3 numbers.
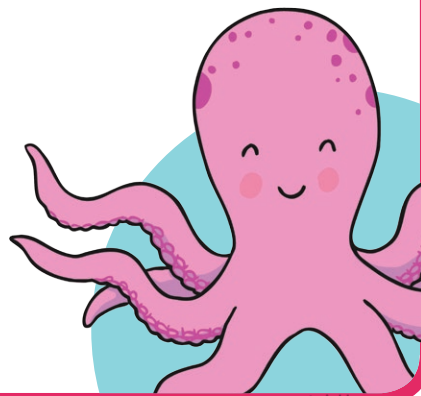
Is Stan correct?

10 16 socks are shared equally between 2 octopuses.

Which calculation shows this?

a) 2 ÷ 8 = 16
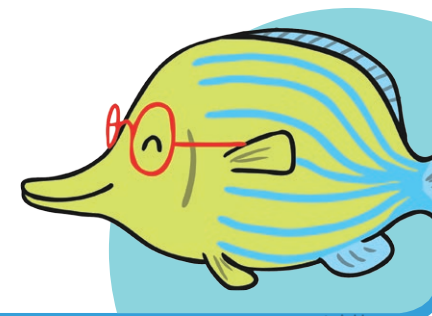
b) 16 ÷ 2 = 8

c) 8 ÷ 2 = 16

11 14 fish hide from Lancelot in the cave.

Some more fish swim in.

Jay says the amount of fish now in the cave is an odd number, but less than 20.

How many fish could be in the cave?

12 Lancelot the crab takes half an hour to catch 10 mussels for his lunch.

How many mussels will he catch in 2 hours?

How did you work it out?

Answers

★

1 No, the number 13 is missing.

2 No, there are 9 fish.

3 Yes, 2 x 5 = 10.

4 The other starfish could be 5cm, 6cm, 7cm or 8cm tall.

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5 No, the lesson finishes at 11 o'clock.

6 There could be 16, 18 or 20 eels.

7 Yes, he could buy 2 drumsticks. He will have 10p left over.

8 7

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9 Stan is correct. He can make these numbers: 34, 35, 43, 45, 53, 54.

10 b) 16 ÷ 2 = 8

11 There could be 17 or 19. The clue says 'some more' swim into the cave, which means more than one.

12 40 mussels

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