

Starry-Eyed Stan

Reasoning Cards



Starry-Eyed Stan Reasoning Cards



- 1 Jay counts bubbles in 2s, starting from 0.

Will she say the number 27?

Explain your thinking.



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- 2 There are 4 starfish in the band. 5 more join and then another 6.

There are more than 20 starfish in the band.

Is this correct?

How do you know?



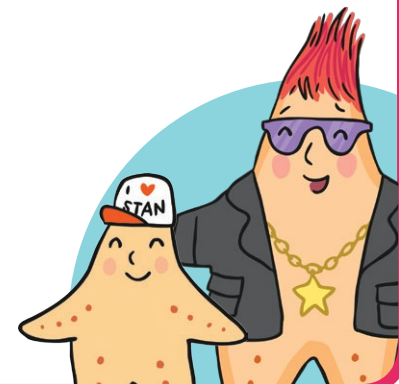
Starry-Eyed Stan Reasoning Cards



- 3 Stan and Jay catch 14 mussels.
They share them equally.

Which answer shows how many mussels they each had? How do you know?

a) 7 b) 6 c) 8



- 4 Stan starts singing at 10 o'clock.
He finishes singing at half past 11.

How long was he singing for?

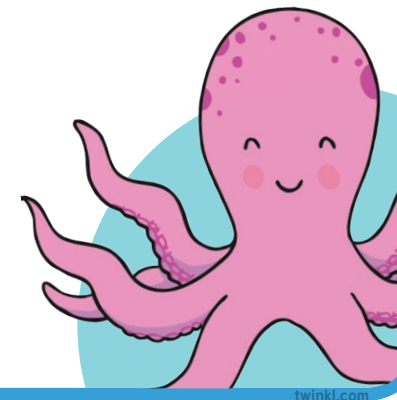
- a) 2 hours
b) 1 and a half hours
c) half an hour



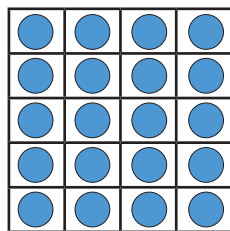
- 5 An octopus wears 1 shoe on each tentacle.
He buys 5 pairs of shoes.

Does he have enough for every tentacle?

Does he have any spare shoes left over?



- 6 Coral is arranged on the seabed like this:



The seahorse writes these calculations to show this.

$$5 \times \boxed{?}$$

$$4 \times \boxed{?}$$

Can you help him to complete the missing numbers?

Can you explain your thinking?

- 7 There are 3 undersea caves.
Each cave is home to the same number of starfish.
In total, there are 15 starfish living in the 3 caves.

Does an odd or even number of starfish live in each cave?

How do you know?



8 Jay finds a strangely-shaped shell.

She says that it has 6 sides.

Stan thinks that it could be either a circle or a pentagon.

Is Stan correct?
How do you know?

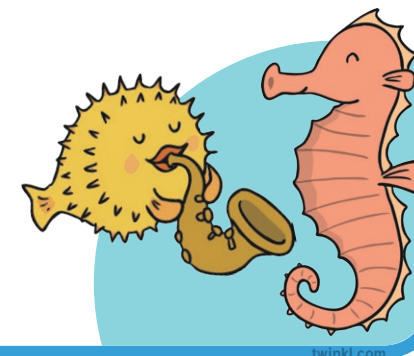


9 The seahorse practised singing for half an hour.

The pufferfish practised singing for 30 minutes.

The seahorse says she practised singing for longer than the pufferfish.

Is she correct?
How do you know?



10 Lancelot finds 20 mussels.

He eats 5 of them.

His brother eats 10 of them.

What fraction of the mussels
does Lancelot eat?

What about his brother?



11 The pufferfish buys a new saxophone for £2.50.

He pays with a £5 note.

He gets £3 change.

Is this correct?



- 12 The weight of each fish is measured in grams (g).

Blue fish	50g
Red fish	12g
Yellow fish	75g
Pink fish	24g

Are these statements true or false?

- The pink fish is double the weight of the red fish.
- The total weight of the blue and red fish is 60g.
- The yellow fish is 25g heavier than the blue fish.

Answers

- No, because 27 is not a multiple of 2. ★
- No, there are 15 starfish.
- a) 7
- b) one and a half hours
- Yes, he has enough shoes for every tentacle. He has 1 pair (2 shoes) left over. ★★
- 5×4 4×5
- There are 5 starfish living in each cave. It is an odd number.
- No, it is a hexagon.
- No, the seahorse and pufferfish practised singing for the same amount of time. ★★★
- Lancelot eats $\frac{1}{4}$ of the mussels. His brother eats $\frac{1}{2}$ of the mussels.
- No, he should get £2.50 change.
- a) true b) false c) true