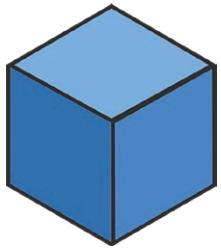
The Making of Milton

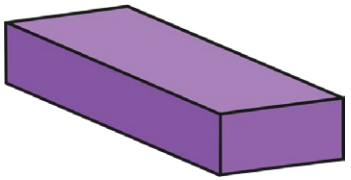
Reasoning Challenge Cards

1. If the jar of courage had 6 faces and 12 edges, which of these shapes could it be? Explain your answer.

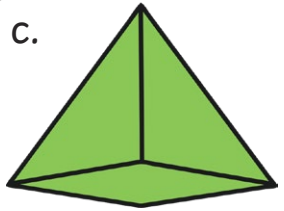
a.



b.



c.



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2. Milton goes on a bike ride. He drinks one bottle of water every 2 miles. If he has 5 bottles, will he be able to cycle 12 miles?
   Explain your answer.

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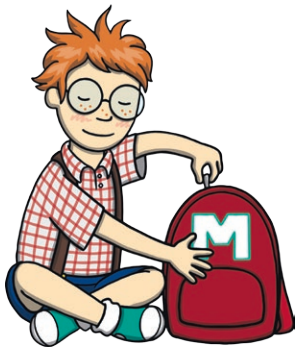
3. Milton has three coins in his backpack. One is copper, one is silver and one is gold and silver. What is the largest amount of money he could have? What is the smallest amount?



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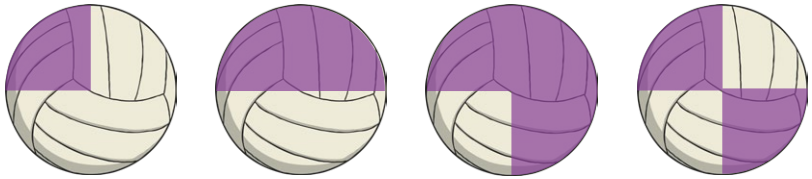
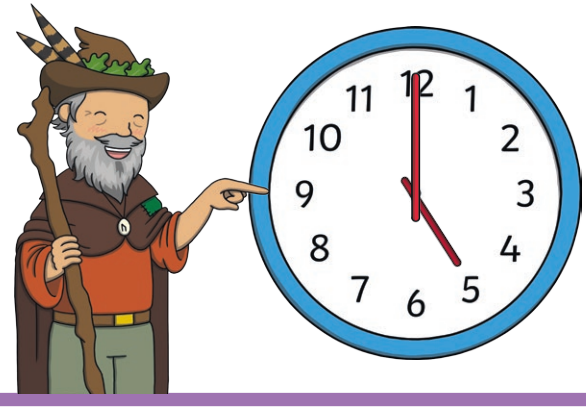
4. Milton's football is $\frac{1}{2}$ purple. Which of these footballs could be Milton's?



A B C D

5. Milton needs to be home for tea at 5 o'clock but the minute hand has fallen off his watch! How will Milton know when he has to go home? Explain your answer.



6. During a football game, team A and team B scored 10 goals altogether.
Team A scored 2 less goals than team B.
How many goals did team A score?

7. Old Jack was 9 years old on Milton's 5th birthday. Milton is now 11 years old so Old Jack must be 19. Am I right?

8. Milton is cycling down the road. Odd numbered houses are on the left and even are on the right. House number 1 is opposite house number 2. Which house is opposite number 7?

9. Milton lives at an even-numbered house. On his street are houses from 21 to 39. His house number is a multiple of 5. Which house does Milton live at? Explain your answer.

12

10. Milton watches the stars appear from his bedroom window. Every 5 minutes, 5 new stars appear. He says, "Wow, I'll see 100 stars in half an hour!" Is he correct?

11. At the end of the football match, Milton's team have scored double the number of goals as the other team. 12 goals were scored in total. How many did each team score?

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12. Old Jack's toys are stored in 2 crates. There are an odd number of toys in each crate and each crate contains less than 5 toys.
How many toys could there be altogether?

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Making of Milton
Addition and Subtraction

1. A or B, because they both have 6 faces and 12 edges.
2. No, because 5 bottles will only last him for 10 miles.
3. £2.52 (£2, 50p and 2p) is the largest amount; £1.06 (£1, 5p and 1p) is the smallest amount
4. B or D, because they both show footballs that are half-coloured purple.
5. He will know because the hour hand will be pointing at the 5.
6. Team A scored 4 goals.
7. No, Old Jack is 4 years older than Milton so he will be 15 now.
8. Number 8 is opposite number 7.
9. Milton lives at number 30 because 30 is a multiple of 5 and an even number between 21 and 39.
10. No, he will see 30 stars in half an hour.
11. The other team scored 4 goals and Milton's team scored 8 goals.
12. 1 + 1 = 2 **or** 1 + 3 = 4 **or** 3 + 3 = 6. There would be 2, 4 or 6 toys altogether.