

Learn. Play. Create

1 Questions 1 & 2

Mon 18 Nov **BARVEMBER** 2019

**1** A football costs €6  
2 footballs and pair of socks cost €20

**2** Two boxes contain the same amount of counters.  
Half of the counters from box A are put into box B.  
There are now 72 counters in box B.  
How many counters were in box A at the start?

2 Answer for Question 1 & 2

**A1**  $\frac{€6}{fb} \quad \frac{?}{socks}$   
 $\frac{€20}{fb \quad fb \quad socks}$   
Pair of socks costs =  $20 - 2 \times 6 = 8$   
**£8 socks**

**A2** start  $\frac{?}{Box A} \quad \frac{?}{Box B}$   
 $Box A = 2 \times 72 / 3 = 48$   
**48**  
**Box A at start**

$A \rightarrow B$   $\frac{?}{A} \quad \frac{?}{Box B}$   
 $72$

5 (Challenge) Question 5

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**5** Natalie has some red and white roses.

- 80% of the roses Natalie has are white.
- Natalie buys 76 more white roses and 48 more red roses.
- 75% of the roses Natalie has are now white.

How many roses did Natalie have in total at the start?

6 Answer 5

**A5**

start  $\frac{?}{4X}$

after  $\frac{76}{?} \quad \frac{48}{3X}$

**340 flowers at start**

$4 \text{ box} + 76 = 3 \times (\text{box} + 48); \text{box} = 68;$   
**Total roses at start =  $5 \times \text{box} = 5 \times 68 = 340$**

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Apps, Skills, Gamification of education - <http://www.choomantra.com/rajeevgm-notes/apps/>

3 Questions 3 & 4

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**3** Leon cycles the same distance each day.  
He cycles 272 km in 4 days.  
How far does he cycle in 7 days?

**4** The 2<sup>nd</sup> term of a sequence is 5 more than the 1<sup>st</sup> term.  
The 3<sup>rd</sup> term is the sum of the first 2 terms.  
The 4<sup>th</sup> term is the sum of the 2<sup>nd</sup> and 3<sup>rd</sup> terms.  
The sum of the first 4 terms is 237.  
What is the 3<sup>rd</sup> term of the sequence?

4 Answer for Question 3

**A3**  $\frac{?}{J}$   
 $\frac{272}{7 \text{ days} = 7 \times 272 / 4 = 476}$   
**476 km**

**A4** 1<sup>st</sup>  $\frac{?}{5}$   
2<sup>nd</sup>  $\frac{?}{?}$   
3<sup>rd</sup>  $\frac{?}{?}$   
4<sup>th</sup>  $\frac{?}{?}$   
 $7 \text{ box} + 20 = 237; \text{box} = 31; 3^{\text{rd}} \text{ term} = 2 \times \text{box} + 5 = 67$   
**67**  
**3<sup>rd</sup> term**

7 Power Maths Bonus Question

**BONUS** Here are some pots of marbles

19 more marbles are added to the green.

How many more marbles are there in the green than in the red now?

Green  $\frac{17}{19}$   
Red  $\frac{24}{19}$

Can you make up your own question and bar model?

8 Answer to Power Maths Bonus Question

**A**  $\frac{17}{19}$   
 $\frac{24}{? = 17 + 19 - 24 = 12}$

**Q & A**  
Purple pot is empty. All pots share so that they all have equal amount of marbles. How many marbles in each pot?

$? = (17 + 42 + 24 + 37) / 5 = 24$

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Play Animal Kingdom Game on Alexa – <http://bit.do/AlexaAnimalKingdomGame>

9 Part of chooMantra Maths Initiative

Download this sheet.  
A3 and A4 size available for printing  
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10 Essence of chooMantra

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Its Magical  
Let the Genie Out  
<http://chooMantra.com>

Light of Knowledge  
Mantra - hidden secrets of Knowledge  
@RajeevGM, @chooMantra

11 Alexa Animal Kingdom Game

**Animal Kingdom Game by RajeevGM**

Free to Enable

This is a single or multiplayer Animal Kingdom Quiz game by @RajeevGM.

Play Animal Kingdom Game and learn about animals, its sounds, collectives, young ones, etc.

12 Instructions to Enable and use Alexa Skill

**Enable Skill**  
In Alexa app menu, select Skills. Search "Animal Kingdom Game RajeevGM". Click on the skill displayed and click on "Enable Skill".

**Use Skill**  
After enabling the skill, switch on Alexa enabled device. Once ready say "Alexa, Launch Animal Kingdom Game"

**OR** visit <http://bit.do/AlexaAnimalKingdomGame>. And click on "Enable Skill". You will need to be logged into Alexa account

Give a man a bowl of rice, you feed him for a day. Teach him farming, you feed him for life.