Months and Years

Months and Years

1a. Decide which statement is always true, sometimes true or never true.

- 1b. Decide which statement is always true, sometimes true or never true.
- A. There are 12 months in a year
- B. May is longer than August
- C. February has 28 days

- A. December is the 12th month of the
- B. September has 31 days
- C. A year has 365 days

Explain your reasoning.

Explain your reasoning.





2a. Which card is the odd one out?

Explain your reasoning.

October

November

January



2b. Which card is the odd one out?

Explain your reasoning.

365 days

A leap year

A non-leap year





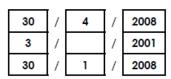
3a. Complete the table about the siblings' dates of birth using the information below.

Carla	
Georgi	

30	/		/	2001
11	/	5	/	2007
	/		/	2003

3b. Complete the table about the siblings' dates of birth using the information below.





Georgi's birthday is 12th May. Ishmael's birthday is the day before Georgi's.

Carla's birthday is in November.

Neale's birthday is on the last day of the month.

Kai's birthday is on the third day of June. Nour was born in the same year as Neale.





Months and Years

Michael was born in the same month as

Katie.

Months and Years

4a. Are the following statements always 4b. Are the following statements always true, sometimes true or never true? true, sometimes true or never true? A. March and April have the same A. March has 31 days number of days B. April has 31 days B. February is the shortest month C. January has more days than C. 31st May is the last day in May February D. 1st March comes after 28th February D. 28th February is the last day in February Explain your reasoning. Explain your reasoning. 5a. Which card is the odd one out? 5b. Which card is the odd one out? Explain your reasoning. Explain your reasoning. The month after January September November June The 3rd month of the year The 9th month of the year 6a. Complete the table about the siblings' 6b. Complete the table about the siblings' dates of birth using the information below. dates of birth using the information below. 2008 2006 2005 Yasmin 10 2006 Michael 5 2010 2003 Katie's birthday is on the first day of a Yasmin was born in the same year as month with seven letters. Fahad. Fahad's birthday is on 4th of the month. Phillipa is the eldest. Phillipa birthday is on the 2nd. Mina is the eldest. Her birthday is 2 days

before Yasmin's.

Months and Years

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7a. Are the following statements always true, sometimes true or never true?

- A. There are 62 days in total in November and December.
- B. There are 366 days in 2020
- C. There are 90 days in 3 consecutive months
- D. The day before 1st September is 31st August

Explain your reasoning.

7b. Are the following statements always true, sometimes true or never true?

- A. There are 732 days in 2 consecutive years
- B. A week after 25th February will be 4th March
- C. There are 60 months in 5 years
- D. A leap year comes before a nonleap year

Explain your reasoning.



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8a. Which card is the odd one out?

Explain your reasoning.

61 days

The 9th and 10th months of the year

July and August

8b. Which card is the odd one out?

Explain your reasoning.

The year 2016

365 days

The year 2015





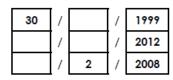
9a. Complete the table about the siblings' dates of birth using the information below.

Sarah	

12	/	3	/	2001
	/		/	2009
4	/		/	2008

9b. Complete the table about the siblings' dates of birth using the information below.





Sarah's birthday is 9 days before Jilani's.
Jilani was born in a leap year.

Jilani's birthday is in the month before Kyle's.

Kyle is the eldest.

Mateo's birthday is the fourth month of the year.

Harry's birthday is 2 weeks after Mateo's. Cara's birthday is on the last day of the month in a leap year.

Harry is the youngest.





PS

Reasoning and Problem Solving Months and Years

Developing

1a. Always true – A (the total number of months in a year is 12)

Sometimes true – C (on non-leap years it has 28 days, on leap years it has 29 days) Never true – B (May and August have 31 days)

2a. November because the other two months have 31 days.

3a

Carla	30	/	11	/	2001
Ishmael	11	/	5	/	2007
Georgi	12	/	5	/	2003

Expected

4a. Always true – A, C (March has 31 days; January has 31 days which is more than 28 or 29 days in February)
Sometimes true – D (Only on non-leap years)

Never true – B (April has 30 days)
5a. June because the other two months have 31 days.

6a.

1	/	1	/	2008
2	/	4	/	2005
5	/	1	/	2010

Greater Depth

Katie

Phillipa

Michael

7a. Always true – B, D (2020 is a leap year; 1st September follows 31st August) Sometimes true – C (January, February and March on non-leap years and February, March, April on leap years) Never true – A (there are 61 days in total) 8a. July and August because the other two cards have 61 days.

9a.

Kyle	12	/	3	/	2001
Sarah	26	/	1	/	2009
Jilani	4	/	2	/	2008

Reasoning and Problem Solving Months and Years

Developing

1b. Always true – A (December is the 12th month out of 12)

Sometimes true – C (A non-leap year has 365 days, a leap year has 366)

Never true – B (September has 30 days) 2b. A leap year because the other two cards have 365 days.

Neale
Kai
Nour

	30	/	4	/	2008
	3	/	6	/	2001
Γ	30	/	1	/	2008

Expected

4b. Always true – B, C (February is the shortest month as it only has 28 or 29 days; May has 31 days)

Sometimes true – D (Only on non-leap years)

Never true – A (March has 31 days, April has 30 days)

5b. The month after September (October) because the other two months have 30 days.

6b

٥.	Fahad
	Yasmin
	Mina

	. 1			
4	/	7	/	2006
8	/	10	/	2006
6	/	10	/	2003

Greater Depth

7b. Always true – C (12 x 5 = 60)

Sometimes true – B, D (only on a non-leap year; a leap year also comes after a non-leap year)

Never true – A (if it included a leap year it would only be 731)

8b. The year 2016 because the other two cards are non-leap years.

9b

b.,	
	Mateo
	Harry
	Cara

30	/	4	/	1999
14	/	5	/	2012
29	/	2	/	2008