Reasoning and Problem Solving
Step 2: Years, Months, Weeks and Days

Teaching Note:

The questions in this resource do not refer to leap years unless specifically stated.

National Curriculum Objectives:

Mathematics Year 4: (4M4c) Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days

Differentiation:

Questions 1, 4 and 7 (Problem Solving)
Developing Determine a child's age using the given age of another child. One-step conversions only, using consecutive units of time, e.g. days to weeks.
Expected Determine a child's age using the given age of 2 other children. One-step conversions only, using consecutive units of time, e.g. days to weeks.
Greater Depth Determine 2 children's ages using the given age of 2 other children. One-step conversions only, using consecutive units of time, e.g. days to weeks.

Questions 2, 5 and 8 (Problem Solving)
Developing Use a simple statement to work out a specific date on a calendar. Duration is within one month.
Expected Use a simple statement to work out a specific date on a calendar. Duration is over a month but still on the calendar.
Greater Depth Use a simple statement to work out a specific date on a calendar. Duration is over a month and not visible on the calendar.

Questions 3, 6 and 9 (Reasoning)
Developing Calculate two statements to determine which is correct by making direct comparisons between days and weeks. One-step conversion only.
Expected Calculate two statements to determine which is correct by making direct comparisons between months, weeks and days. Up to two-step conversions.
Greater Depth Calculate two statements to determine which is correct by making comparing a mixture of days, weeks, months and years. Up to two-step conversions.

More Year 4 Time resources.

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Reasoning and Problem Solving – Years, Months, Weeks and Days – Teaching Information

Years, Months, Weeks and Days

1a. Sabrina is 98 months old. Hallie is 6 months younger than Sabrina.

How old is Hallie?

Hallie is ☐ years and ☐ months old.

D | PS

1b. Julia is 86 months old. Kal is 4 months older than Julia.

How old is Kal?

Kal is ☐ years and ☐ months old.

D | PS

2a. Leoni is going to visit her family at the seaside. She arrives on the 5ᵗʰ January and spends 10 days there before returning home.

Mon	Tue	Wed	Thurs	Fri	Sat	Sun
			January			
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

What date does she return home?

D | PS

2b. Albert goes on a skiing holiday for 2 weeks to the Alps. He gets home on the 30ᵗʰ November.

Mon	Tue	Wed	Thurs	Fri	Sat	Sun
			November			
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

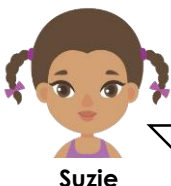**What date did he start his holiday?**

D | PS

3a. Jak and Suzie are discussing days.

There are 13 days in a fortnight.
Jak

There are 14 days in 2 weeks.
Suzie

Who is correct? Explain why.

D | R

3b. Helen and Joel are discussing years.

There are 24 months in 2 years.
Helen

There are 14 months in 2 years.
Joel

Who is correct? Explain why.

D | R

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Reasoning and Problem Solving – Years, Months, Weeks and Days – Year 4 Developing

4a. Elena is 10 years and 1 month old. Harry is 13 months younger than Elena. Jack is 3 months older than Harry.

How old is Jack?

Jack is ☐ years and ☐ months old.

E | PS

4b. Hanif is 114 months old. Dakota is 6 months younger than Hanif. Violet is 6 months older than Dakota.

How old is Violet?

Violet is ☐ years and ☐ months old.

E | PS

5a. Louisa is going on holiday on the 17th August. She spends 1 week in France and 9 days in Spain.

Mon	Tue	Wed	Thurs	Fri	Sat	Sun
August							
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		
September							
					1	2

What date does she return home?

E | PS

5b. Jonah is on an expedition. He leaves Peru on the 4th July and it takes him 2 weeks to explore the Andes. He then travels for 15 days by bus to Brazil.

Mon	Tue	Wed	Thurs	Fri	Sat	Sun
July							
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			
August							
				1	2	3

What date does he arrive in Brazil?

E | PS

6a. Saffie and Kai are discussing months.

Saffie: The total amount of days in April, May and June is greater than in October, November and December.

Kai: The total amount of days in October, November and December is greater than in April, May and June.

Who is correct? Explain why.

E | R

6b. Daya and Darnell are discussing the month, June.

Daya: There are 4 weeks and 3 days in June.

Darnell: There are 4 weeks and 2 day in June.

Who is correct? Explain why.

E | R

7a. Thomas is 9 years and 7 months old. Joe is 108 months old. Carla is 6 months older than Joe. Suzie is 9 months younger than Carla.

How old is Carla? How old is Suzie?

Carla is ☐ years and ☐ months old.

Suzie is ☐ years and ☐ months old.

GD   PS

7b. Dante is 110 months old. Charlie is 8 years and 2 months old. Eliza is 5 months older than Dante. Asha is 6 months younger than Charlie.

How old is Eliza? How old is Asha?

Eliza is ☐ years and ☐ months old.

Asha is ☐ years and ☐ months old.

GD   PS

8a. Ethan returns home from travelling on the 3rd January. He had been travelling for 1 month, 1 week and 6 days.

Mon	Tue	Wed	Thurs	Fri	Sat	Sun
24	25	26	27	28	29	30
31						
December						
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			
January						
				1	2	3

What day did he set off travelling?

GD   PS

8b. The date is 12th June. Anne has 3 weeks and 6 days left until she is on holiday from school.

Mon	Tue	Wed	Thurs	Fri	Sat	Sun
June						
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
July						
1	2	3	4	5	6	7

What date does she break up from school?

GD   PS

9a. Jan and Michael are discussing years.

There are 144 months in 12 years.

Jan

There are 265 weeks in 5 years.

Michael

Who is correct? Explain why.

GD   R

9b. Thea and Vanessa are discussing days.

There are always 90 days in January, February and March.

Thea

There are always 91 days in January, February and March.

Vanessa

Who is correct? Explain why.

GD   R

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Reasoning and Problem Solving – Years, Months, Weeks and Days – Year 4 Greater Depth

Reasoning and Problem Solving
Years, Months, Weeks and Days

Developing
1a. Hallie is 7 years and 8 months old.
2a. Wednesday 15th January
3a. Jak is correct. There are 7 days in 1 week so 2 x 7 = 14 days.

Expected
4a. Jack is 9 years and 3 months old.
5a. Sunday 2nd September
6a. Kai is correct. There are 92 days in October, November and December combined and only 91 days in April, May and June combined.

Greater Depth
7a. Carla is 9 years and 6 months old. Suzie is 8 years and 9 months old.
8a. Friday 21st November
9a. Jan is correct. There are 12 months in 1 year so 12 x 12 = 144 months. Michael is incorrect because there are 52 weeks in 1 year so 52 x 5 = 260 days.

Developing
1b. Kal is 7 years and 6 months old.
2b. Sunday 16th November
3b. Helen is correct. There are 12 months in 1 year so 2 x 12 = 24 months.

Expected
4b. Violet is 9 years and 6 months old.
5b. Saturday 2nd August
6b. Darnell is correct. There are 30 days in June. 7 days x 4 weeks = 28 days, 28 days + 2 days = 30 days.

Greater Depth
7b. Eliza is 9 years and 7 months old. Asha is 7 years and 8 months old.
8b. Tuesday 9th July
9b. Both Thea and Vanessa could be correct. If it is a leap year, there are 91 days in January, February and March combined but if it is not a leap year, there are only 90.

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Reasoning and Problem Solving – Years, Months, Weeks and Days ANSWERS