The children at Twinkl Academy are having a 'Going for Goals' focus week. They are setting themselves goals to aim for.

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Class	Monday	Tuesday	Wednesday	Rounded Calculation	Estimated Answer
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Maple	855	1209	95		
Oak	___92___	3___5		1900 + 400 + ________	3100

2) During 'Going for Goals' week, the children at Twinkl Academy have been wearing step counters. Look at the totals on each step counter and match them to the correct rounded number sentence and estimated answer.

Day 1 - 3452
Day 2 - 2505

Day 1 - 3378
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Day 1 - 2559
Day 2 - 3331

3400 + 2600

3450 + 2510

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7000

6000

5960

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7506 – 2344 = 5162		
2879 + 6747 = 9626		
5611 + 3462 = 2149		

3) As part of the 'Going for Goals' maths challenge, the children at Twinkl Academy were using rounding to work out estimated answers for their calculations. They had a go at rounding to the nearest 1000, then the nearest 100 and finally the nearest 10.
Look at Jamil's work below. Fill in the missing numbers.

7532 – 2784 = __________

__________ – 2800 = __________

8000 – __________ = __________

__________ – __________ = 4750

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a) Match the children to the correct original calculation.

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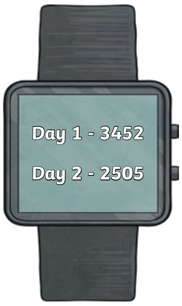
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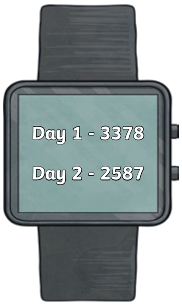
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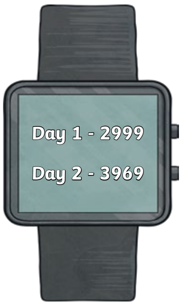
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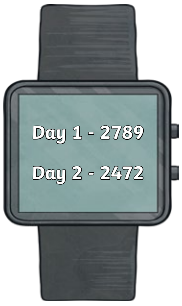
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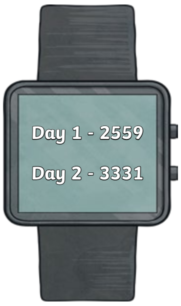
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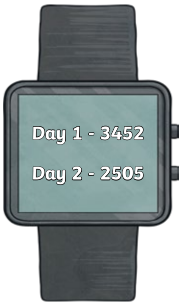
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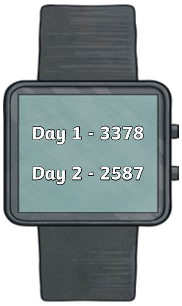
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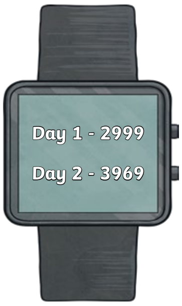
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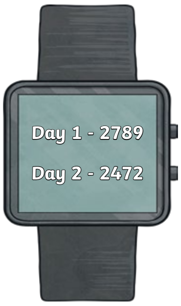
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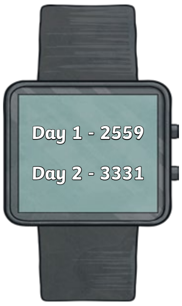
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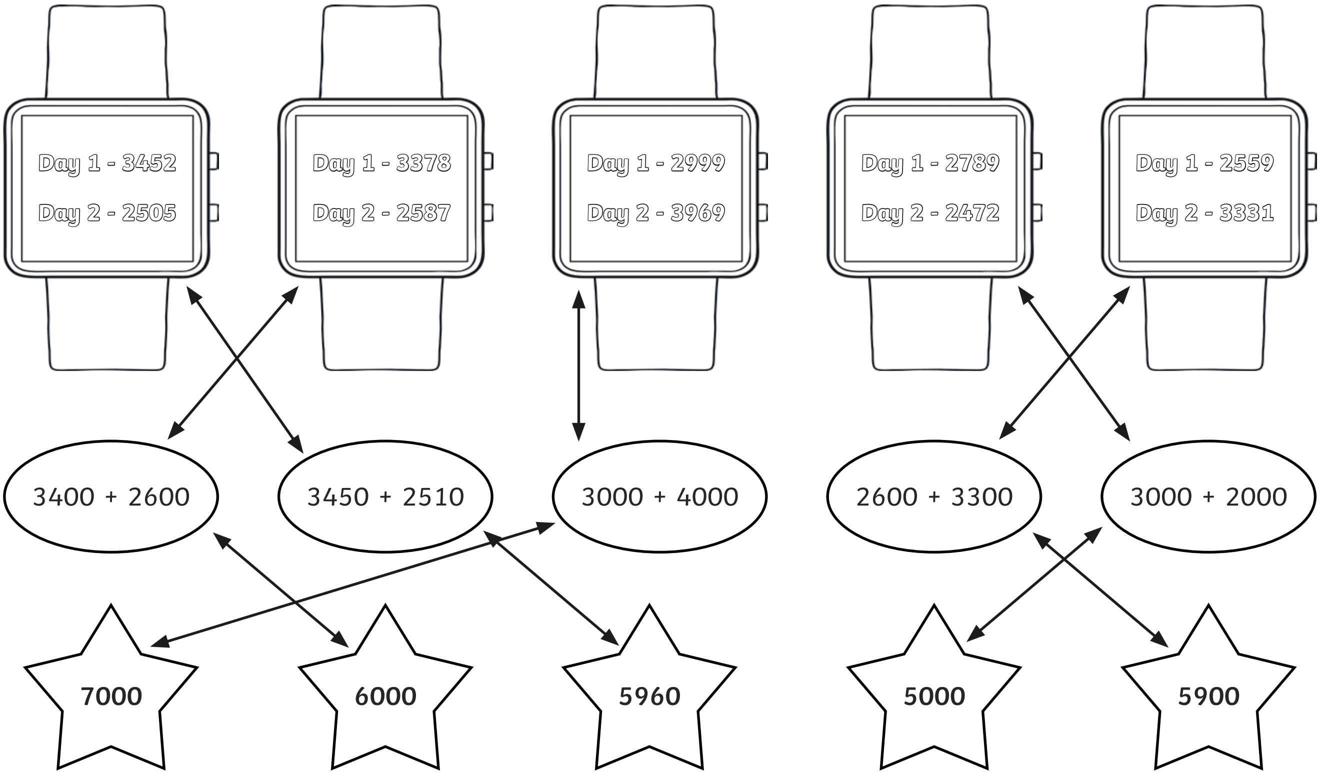
1)

Class	Monday	Tuesday	Wednesday	Estimation calculation	Estimated answer
Ash	567	986	1056	600 + 1000 + 1100	2700
Maple	855	1209	95	900 + 1200 + 100	2200
Oak	1920, 1921, 1922, 1923, 1924	355, 365, 375, 385, 395	Any number between 750 and 849	1900 + 400 + 800	3100

2)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1) ***Simone has rounded each number to the nearest thousand. This will not give the most accurate estimate. She should have rounded each number to the nearest 10. The smaller the digit place a number is rounded to, the more accurate the estimate will be.***

2)

Actual Calculation	Rounded calculation	Correct ✓ Incorrect ×
7506 – 2344 = 5162	***8000 – 2000 = 6000*** ***7500 – 2300 = 5200*** ***7510 – 2340 = 5170***	✓
2879 + 6747 = 9626	***3000 + 7000 = 10 000*** ***2900 + 6700 = 9600*** ***2880 + 6750 = 9630***	✓
5611 + 3462 = 2149	***6000 + 3000 = 9000*** ***5600 + 3500 = 9100*** ***5610 + 3460 = 9070***	×

The calculation 5611 + 3462 = 2149 is incorrect. Rounding the numbers and calculating with them gives an estimated answer of approximately 9000. They have subtracted instead of adding the numbers.

3) 7532 – 2784 = ***4748***
8000 – ***3000*** = ***5000***
7500 – 2800 = ***4700***
7530 – ***2780*** = 4750

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1)

a)

Child's Name	Matching Original Calculation
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Ting	***1896 + 2716 =***
Mabel	***1832 + 2898 =***
Kyle	***1456 + 3581 =***
Josephine	***2581 + 1995 =***

The leftover calculation is
2759 + 3891 =.

b) ***Here are some suggested possible answers:***
My calculation has an estimated total of 6700.
My calculation is an addition calculation.
One of the numbers in my calculation rounds to 2800.