

# Yr 6 More Place Value, Addition and Subtraction

## Unit 2 (6427)

### Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

#### Day 1 Temperature Sheet 1

Working towards ARE (with support) / Working at ARE / Greater Depth  
Greater Depth should complete challenge.

#### Day 2 Calculating with positive and negative numbers Sheet 1

Working towards ARE / Working at ARE / Greater Depth  
Working towards ARE questions 1–3, use a number line.  
Working at ARE questions 2–5 use a number line.  
Greater Depth complete 2–5 and the challenge.

# Temperature

## Sheet 1

Day	Maximum day temperature	Minimum night temperature
Monday	5°C	-3°C
Tuesday	4°C	-2°C
Wednesday	2°C	-3°C
Thursday	-1°C	-6°C
Friday	-2°C	-4°C

1. Which was the coldest night?
2. Which was the mildest night?
3. What was the fall in temperature on Monday?
4. What was the fall in temperature on Friday?
5. Which day had the biggest drop in temperature?
6. What is the difference between the mildest temperature recorded during the week and the coldest?

### Challenge

Make up two more questions for your partner to answer. Remember you must have worked out the answers as well!

# Calculating with positive and negative numbers

## Sheet 1

1. Calculate:

- a.  $-3 + 4$
- b.  $-3 - 8$
- c.  $-3 + 9$
- d.  $3 - 11$

2. Calculate:

- a.  $-6 + 6$
- b.  $-6 - 6$
- c.  $-6 + 11$
- d.  $6 - 17$

3. Calculate:

- a.  $-10 + 2$
- b.  $-10 - 6$
- c.  $-10 + 13$
- d.  $10 - 19$

4. There were four cold winter nights in Warsaw, each followed by a warmer day. Complete the number sentences in your book calculating the temperature rises. Give answers in  $^{\circ}\text{C}$ .

- a. Monday:  $-10 + \dots = 4$ , which is a rise of  $\dots^{\circ}\text{C}$ .
- b. Tuesday:  $-12 + \dots = 5$ , which is a rise of  $\dots^{\circ}\text{C}$ .
- c. Wednesday:  $-11 + \dots = 7$ , which is a rise of  $\dots^{\circ}\text{C}$ .
- d. Thursday:  $-7 + \dots = 11$ , which is a rise of  $\dots^{\circ}\text{C}$ .

5. Lenny has no money, and he owes Kieran £5.

- a. Write a number to show how much money Lenny has.
- b. Lenny is given £11. Write a number sentence showing how much Lenny has now.

### Challenge

Mariam owes £65 on the gas and electricity bill. She has just been paid £955 for her monthly pay.

- a. Write a number sentence for how much money Mariam has left after paying her bill.
- b. Mariam's other monthly spending comes to £908. Write a number sentence, using your answer to question a, to show how much money Mariam has by next pay day.

# More place value, addition and subtraction

## Answers

### Day 1 Temperature Sheet 1

1. Thursday was the coldest night.
2. Tuesday was the mildest night.
3. On Monday, the temperature fell by 8 degrees.
4. On Friday, the temperature fell by 2 degrees.
5. The day with the biggest drop in temperature was Monday.
6. There is a difference of 11 degrees between the mildest and coldest temperatures.

### Day 2 Calculating with positive and negative numbers Sheet 1

1. a.  $-3 + 4 = 1$   
b.  $-3 - 8 = -11$   
c.  $-3 + 9 = 6$   
d.  $3 - 11 = -8$
2. a.  $-6 + 6 = 0$   
b.  $-6 - 6 = -12$   
c.  $-6 + 11 = 5$   
d.  $6 - 17 = -11$
3. a.  $-10 + 2 = -8$   
b.  $-10 - 6 = -16$   
c.  $-10 + 13 = 3$   
d.  $10 - 19 = -9$
4. a. Monday:  $-10 + 14 = 4$ , which is a rise of  $14^{\circ}\text{C}$ .  
b. Tuesday:  $-12 + 17 = 5$ , which is a rise of  $17^{\circ}\text{C}$ .  
c. Wednesday:  $-11 + 18 = 7$ , which is a rise of  $18^{\circ}\text{C}$ .  
d. Thursday:  $-7 + 18 = 11$ , which is a rise of  $18^{\circ}\text{C}$ .
5. a. Lenny has  $-\pounds 5$   
b. Lenny now has  $-\pounds 5 + \pounds 11 = \pounds 6$

### Challenge

- a.  $-\pounds 65 + \pounds 955 = \pounds 890$  or  $\pounds 955 - \pounds 65 = \pounds 890$
- b.  $\pounds 890 - \pounds 908 = -\pounds 18$