

Year 5 Place value Unit 1 (5711)

Additional teacher instructions for practice sheets

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

Day 1 Ordering positive and negative numbers Sheet 1

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE have -10 to 10 number lines to help (see resources).

All children attempt Challenge.

Day 2 Count in steps through zero Sheet 1

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE draw hops on -20 to 20 number lines to help (see resources).

Greater Depth complete Challenges.

Ordering positive and negative numbers

Sheet 1

A. Write $<$ or $>$ between each pair of numbers.

1. -5 4
2. 3 -7
3. -6 6
4. -5 -3
5. -2 -10

B. Write each set of numbers in order, smallest first.

6. -3, 3, -2
7. 6, -1, 4
8. -4, -10, -8
9. 2, -2, 7, -7
10. 4, 0, -2, 5, -6

C. Write two numbers which go between each pair of numbers.

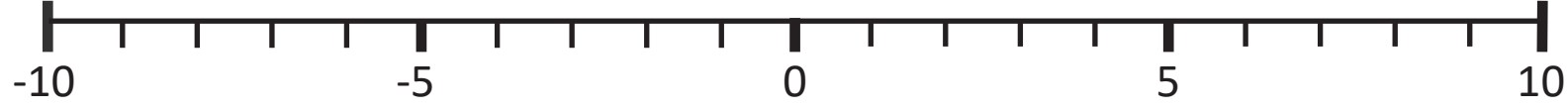
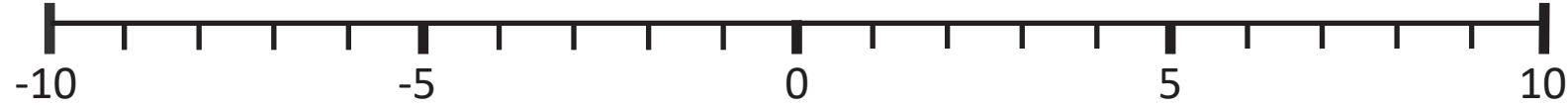
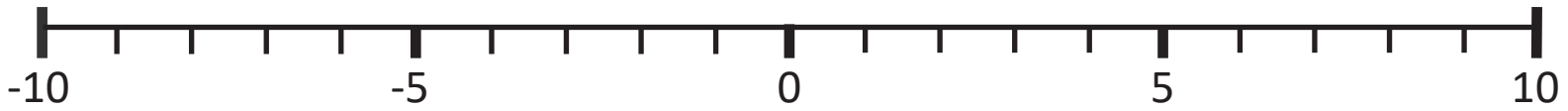
11. -7 and 0
12. -2 and 2
13. 5 and -1
14. -3 and -10
15. 0 and -4

Challenge

Tina says -10°C must be really warm because it is 70 degrees hotter than the Antarctic!
Do you agree with her?

-10 to 10 number lines

Resource sheet



Count in steps through zero

Sheet 1

Write the next three numbers in each sequence.

1. 20, 15, 10, 5, 0, ____, ____, ____

2. 12, 9, 6, 3, 0, ____, ____, ____

3. 16, 12, 8, 4, 0, ____, ____, ____

4. 7, 5, 3, 1, -1, ____, ____, ____

5. 17, 12, 7, 2, -3, ____, ____, ____

6. 8, 5, 2, -1, -4, ____, ____, ____

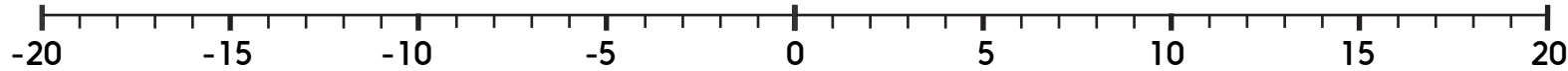
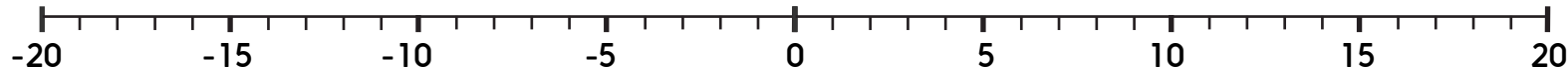
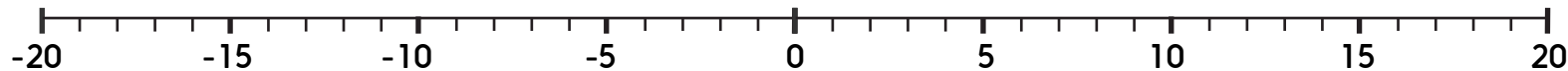
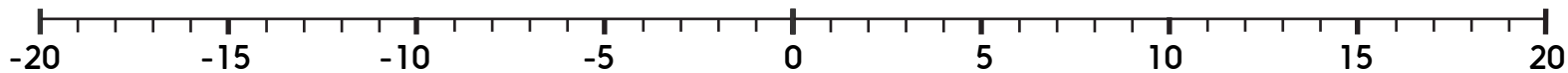
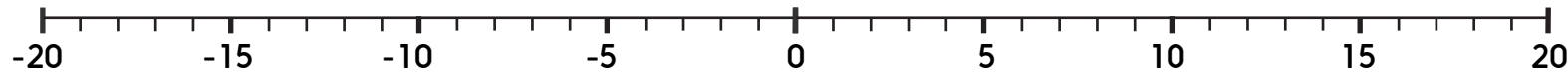
7. -15, -12, ____, -6, ____, ____, ____, ____

Challenge

- 1a. A sequence begins 13, 18, 23, 28,... Ollie says 'This sequence counts on in 5s, so 65 will be in the sequence.' Do you agree with him?
- b. A sequence begins 9, 5, 1, -3,... Will -36 be in the sequence?
2. A mini-sub starts off at sea level. It descends 2 metres every 5 seconds. What depth will it be after one minute?
3. The temperature is 3°C at 4pm. As it gets dark the temperature falls by 2 degrees every hour. What temperature is it at midnight?

-20 to 20 number lines

Resource sheet



Place value

Answers

Day 1 Ordering positive and negative numbers Sheet 1

A.

1. $-5 < 4$
2. $3 > -7$
3. $-6 < 6$
4. $-5 < -3$
5. $-2 > -10$

B.

6. $-3, -2, 3$
7. $-1, 4, 6$
8. $-10, -8, -4$
9. $-7, -2, 2, 7$
10. $-6, -2, 0, 4, 5$

C.

Accept two answers from the following:

11. $-6, -5, -4, -3, -2, -1$
12. $-1, 0, 1$
13. $4, 3, 2, 1, 0$
14. $-4, -5, -6, -7, -8, -9$
15. $-1, -2, -3$

Challenge

Tina is wrong. Negative temperatures are colder as they increase.

Day 2 Count in steps through zero Sheet 1

1. 20, 15, 10, 5, 0, $-5, -10, -15$
2. 12, 9, 6, 3, 0, $-3, -6, -9$
3. 16, 12, 8, 4, 0, $-4, -8, -12$
4. 7, 5, 3, 1, $-1, -3, -5, -7$
5. 17, 12, 7, 2, $-3, -8, -13, -18$
6. 8, 5, 2, $-1, -4, -7, -10, -13$
7. $-15, -12, -9, -6, -3, 0, 3, 6$

Challenge

1. a. 65 will not be in the sequence. The closest numbers will be 63 and 68, having counted in 5s from 28.
b. -36 will not be in the sequence, as all of the numbers are odd.
2. 24 metres
3. -13°C