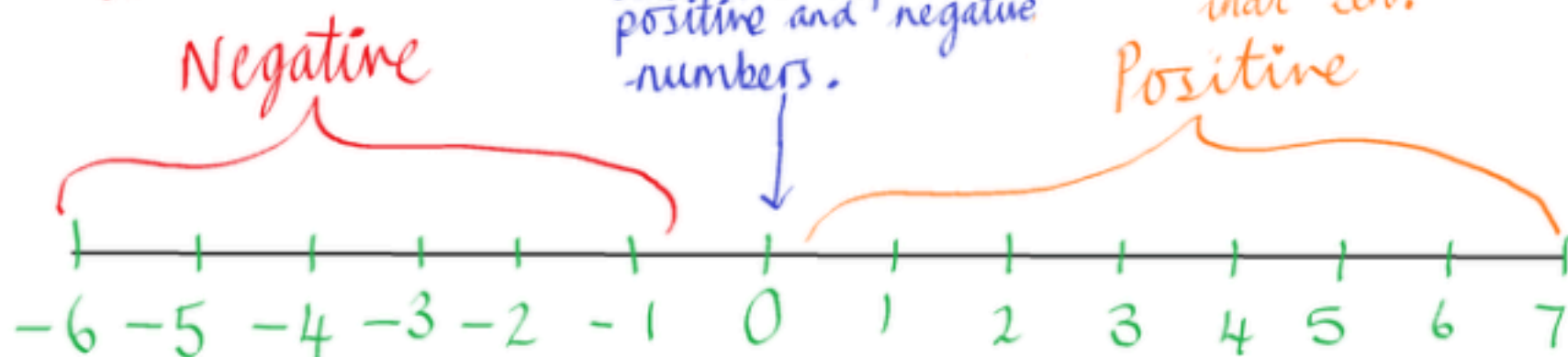


Positive and Negative Numbers


☹️ A negative number is a number less than zero.

Zero means nought (nothing) and it separates positive and negative numbers.

😊 A positive number is a number bigger than zero.

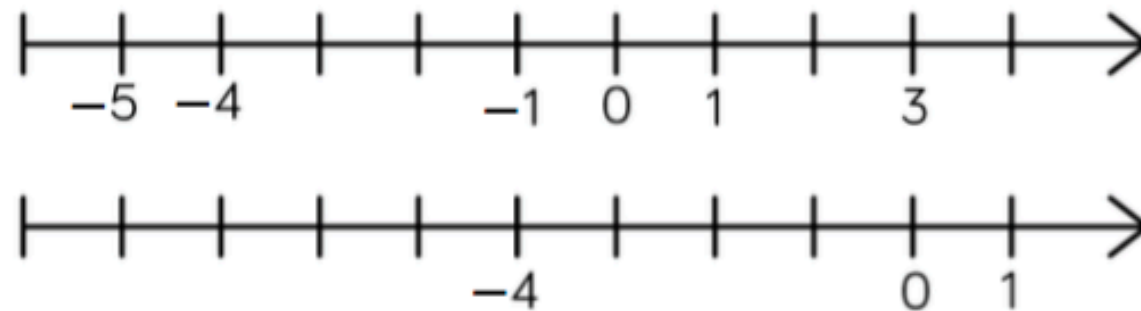


$2 - 3 = -1$ 
When subtracting, count backwards.

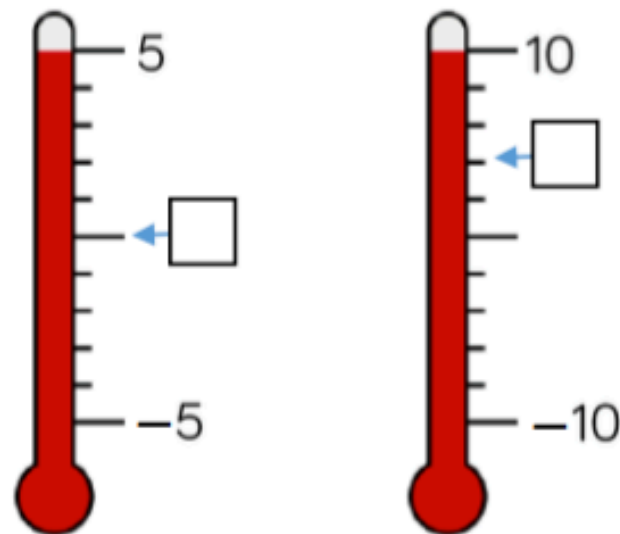
$-7 + 3 = -4$ 
When adding, count on.

Can you count backwards into negative numbers?

Complete the number lines



Fill in the missing temperatures on the thermometers.



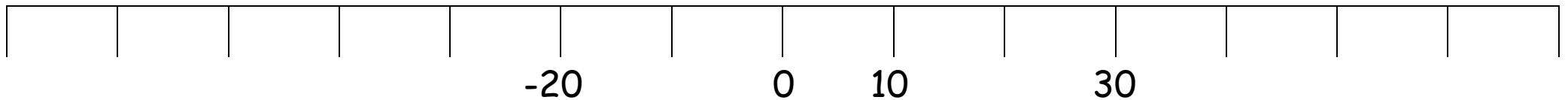
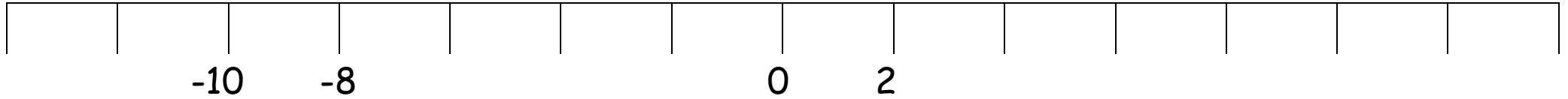
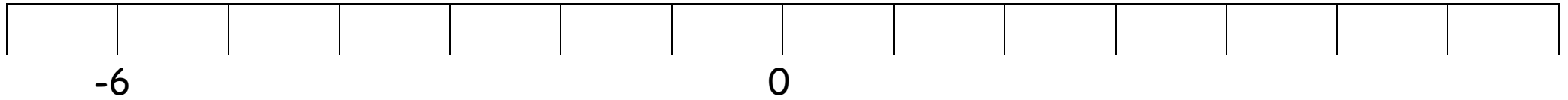
Dexter is counting backwards out loud.
He says,

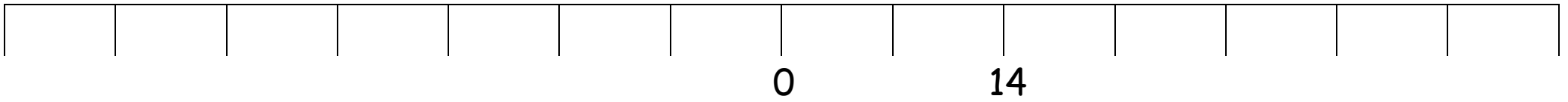
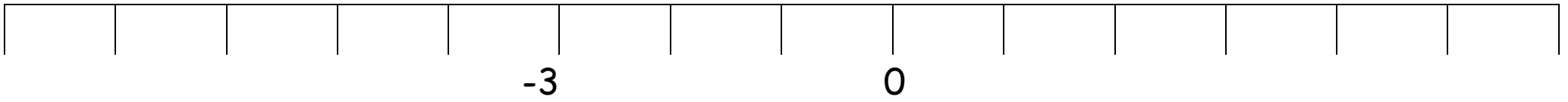
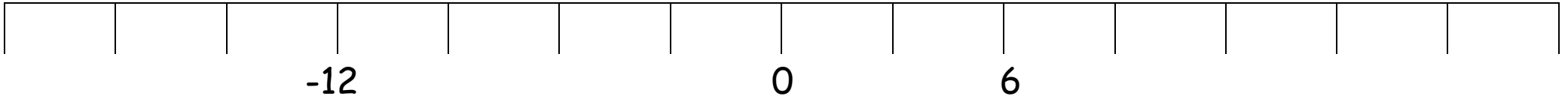
“Two, one, negative one, negative two, negative three ...”

What mistake has Dexter made?

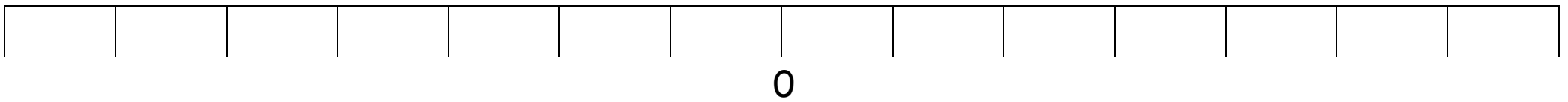
LO: I can complete a scale with negative numbers.

Finish these scales:





Now complete your own scale:



LO: I can identify smaller and larger numbers.

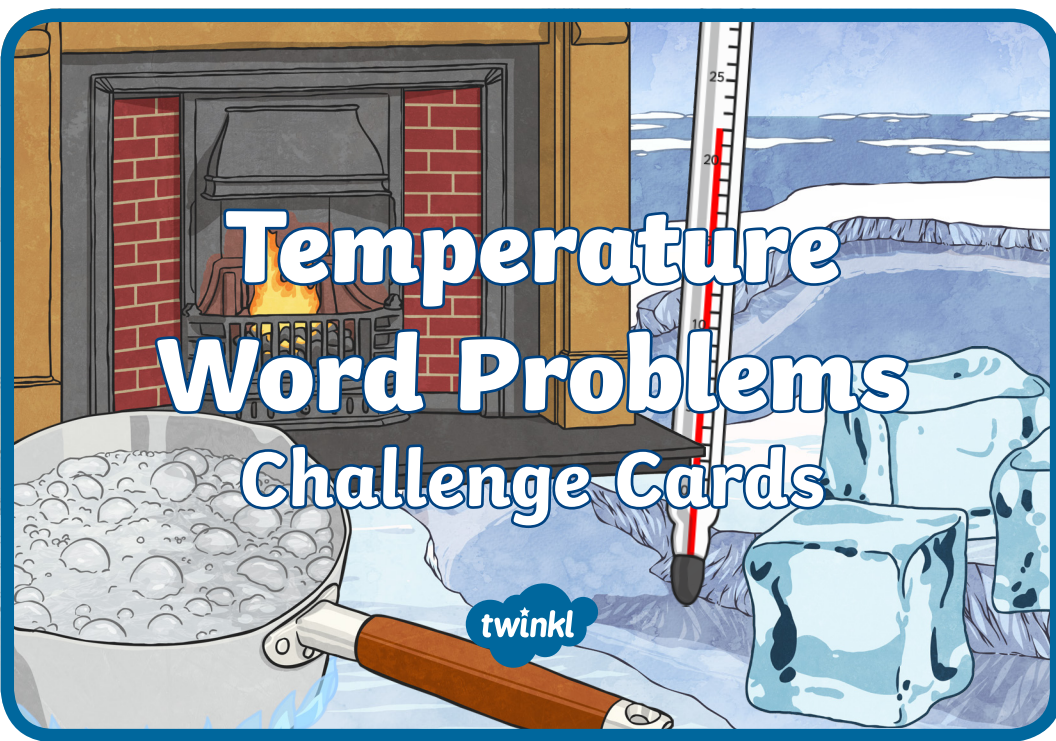
Circle the smaller number:

- 1) *6 or 10*
- 2) *8 or -8*
- 3) *-2 or -3*
- 4) *-1 or 3*

Circle the larger number:

- 5) *8 or 20*
- 6) *5 or -6*
- 7) *-3 or -9*
- 8) *-1 or 7*

How do you know? Explain to your partner.



1

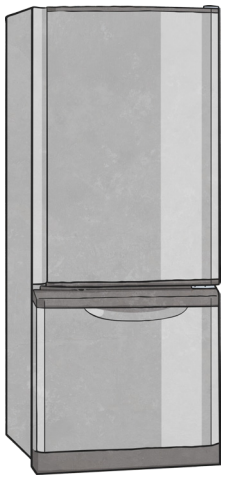
Temperature Word Problems

The temperature inside is 15°C and outside is -2°C . What is the difference in temperature?



2

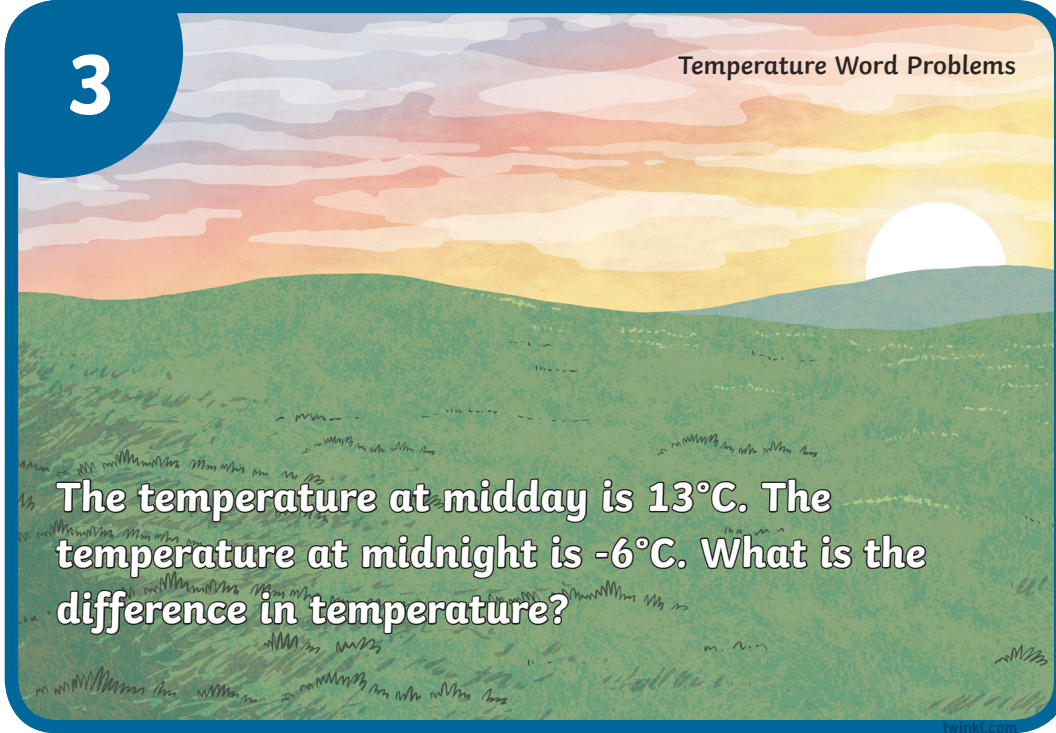
Temperature Word Problems



The temperature in the fridge is 4°C . The temperature in the freezer is 21°C lower. What is the temperature in the freezer?

3

Temperature Word Problems



The temperature at midday is 13°C . The temperature at midnight is -6°C . What is the difference in temperature?

4

Temperature Word Problems

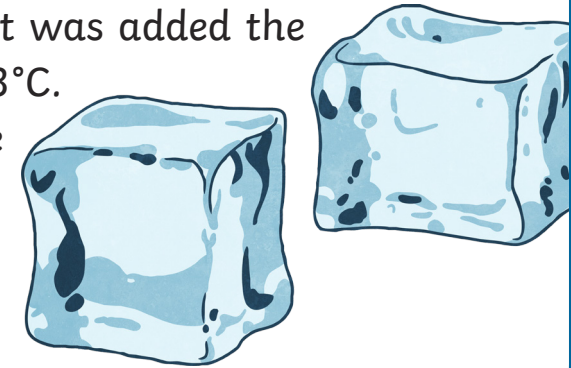
Ice cream is served at -11°C . The temperature in the room is 21°C . How much warmer is the room than the ice cream when served?



5

Temperature Word Problems

When salt is added to ice, the temperature drops. Before the salt was added, the temperature was -2°C . After the salt was added the temperature was -13°C . By how much did the temperature drop?



6

Temperature Word Problems

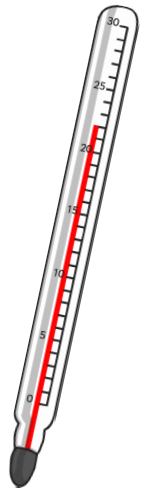
Fish is taken from the sea, where the temperature is 4°C . The fish is put into a cold store, which is kept at -28°C . How much does the temperature of the fish decrease?



7

Temperature Word Problems

The boiling point of oxygen is -183°C . The melting point is -218°C . What is the difference between the boiling point and melting point of oxygen?



Dry ice sublimates (turns from solid to gas) at -78.5°C . What is the difference in the temperature of dry ice sublimating and the room temperature of 19°C ?

**Answers**

- | | |
|--------------------------|---------------------------|
| 1. 17°C | 5. 11°C |
| 2. -17°C | 6. 32°C |
| 3. 19°C | 7. 35°C |
| 4. 32°C | 8. 97.5°C |