

RECALL

Put these temperatures in order, starting with the **lowest**.

21°C

-13°C

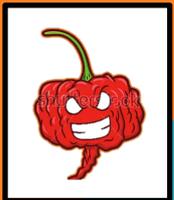
-24°C

0°C

35°C

 °C

lowest

 °C °C °C °C

RECALL ANSWERS

Put these temperatures in order, starting with the **lowest**.

21°C

-13°C

-24°C

0°C

35°C

-24°C

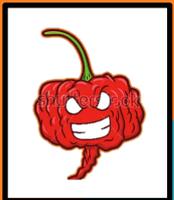
-13°C

0 °C

21 °C

35 °C

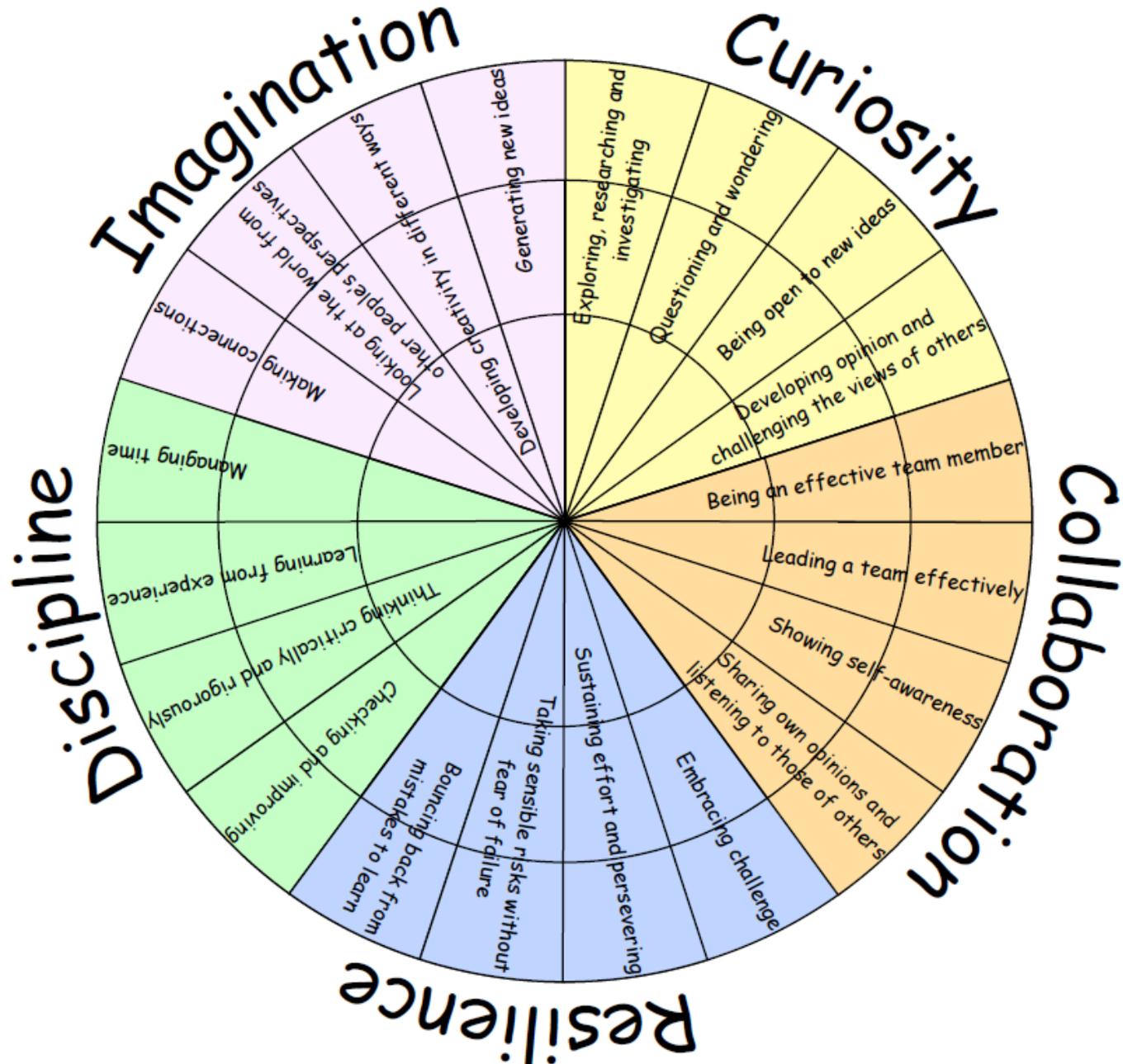
lowest



I CAN USE NEGATIVE
NUMBERS IN CONTEXT AND
CALCULATE INTERVALS
ACROSS ZERO

Place Value (41vii)

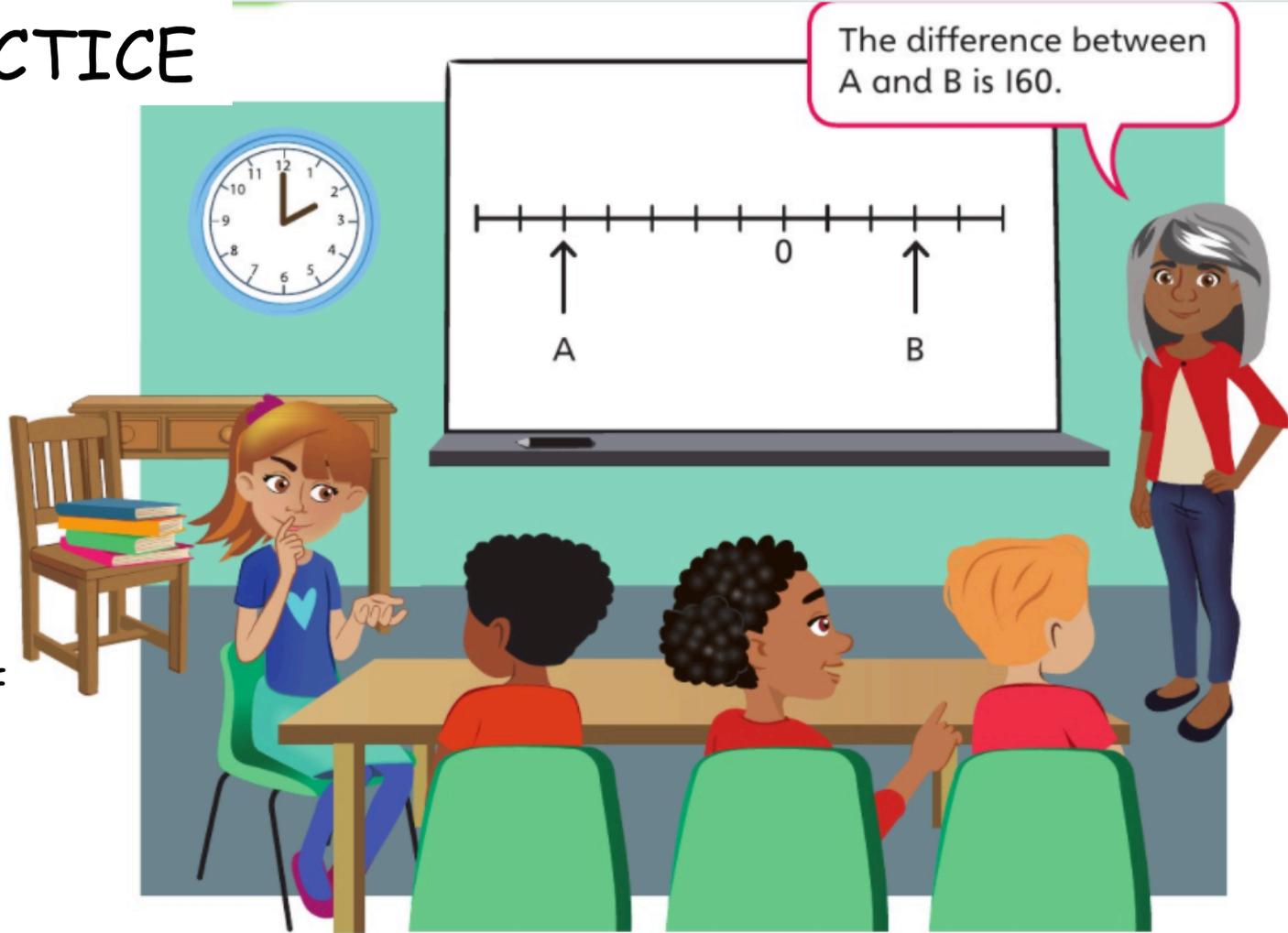
LEARNING HABITS?



GUIDED PRACTICE

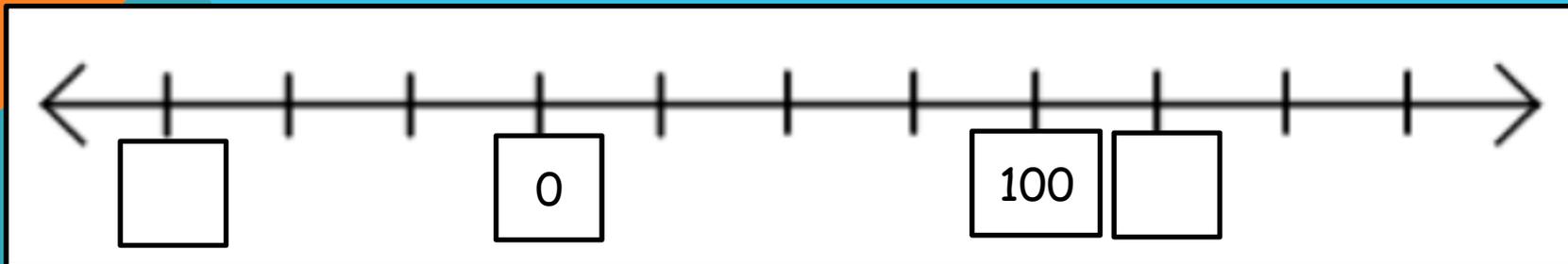
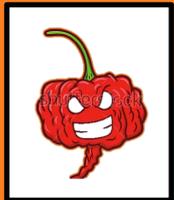
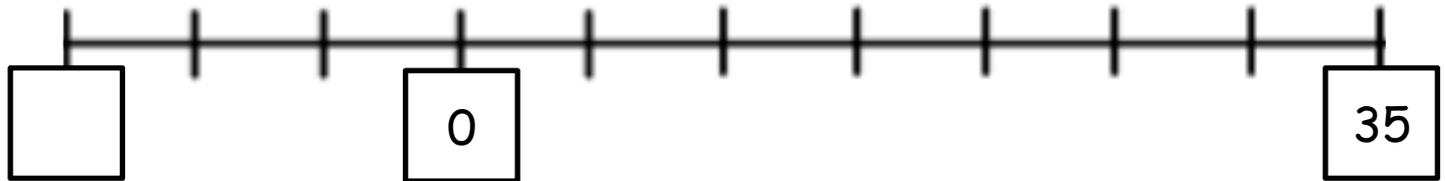
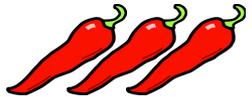
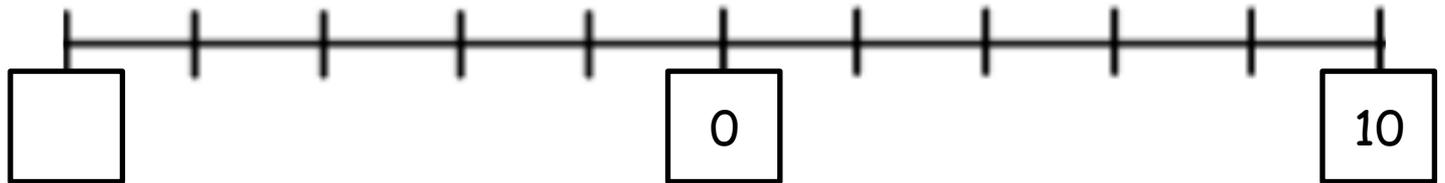
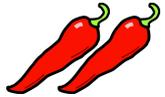
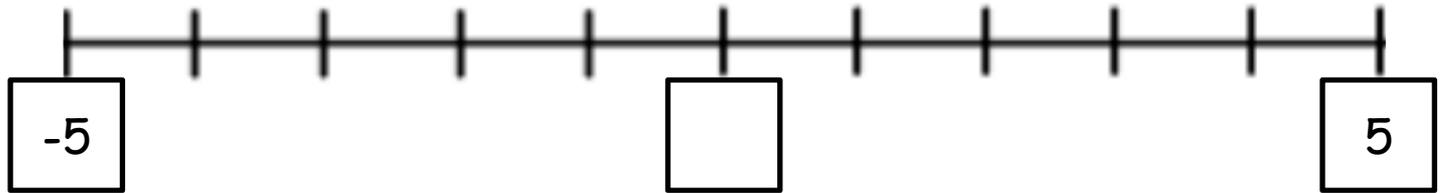
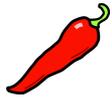
1) What are the values of A and B?

2) Find the value of the point half-way between A and B.

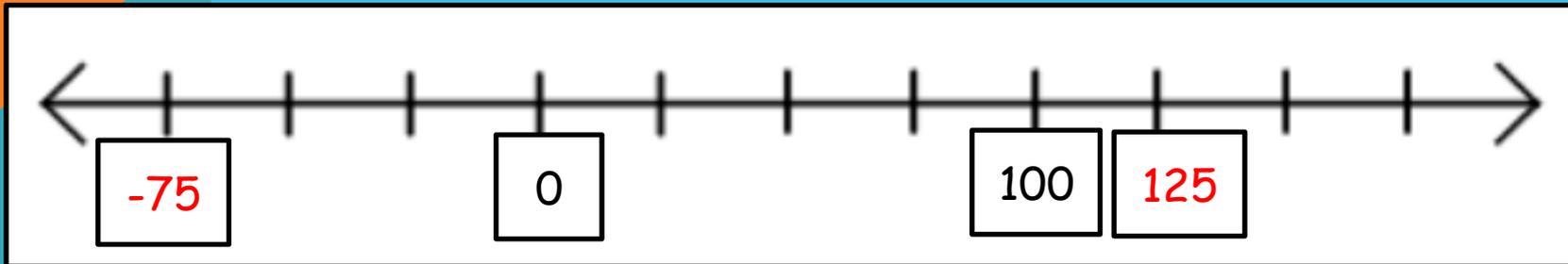
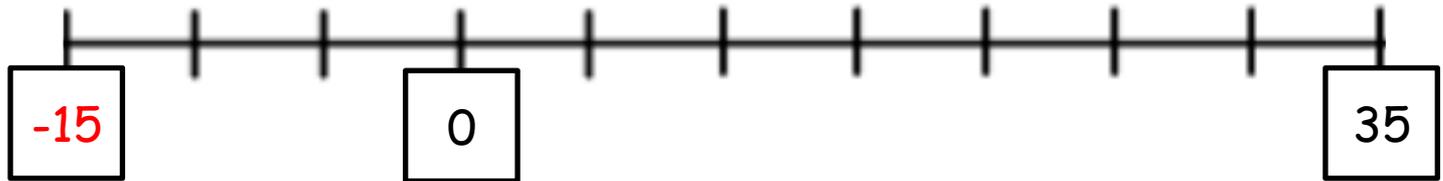
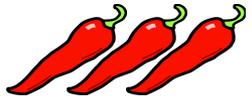
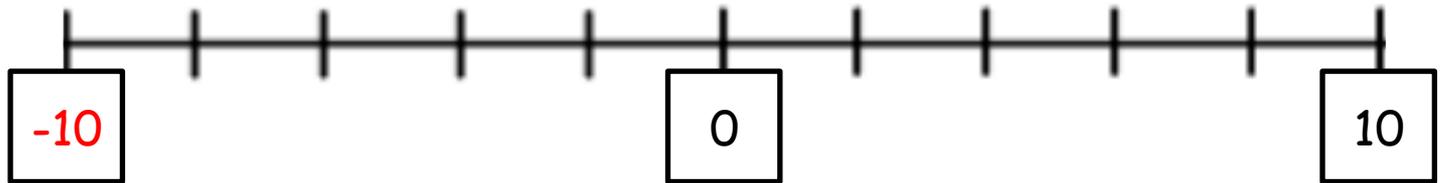
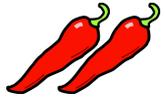
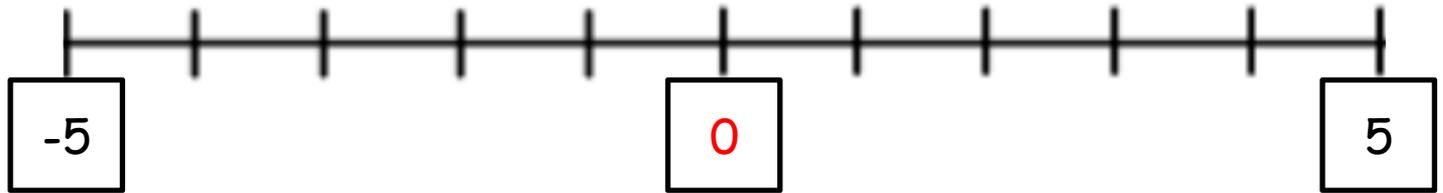
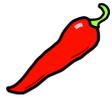


Write an explanation on how you solved this problem

INTELLIGENT PRACTICE



INTELLIGENT PRACTICE ANSWERS



DIVE DEEPER 1

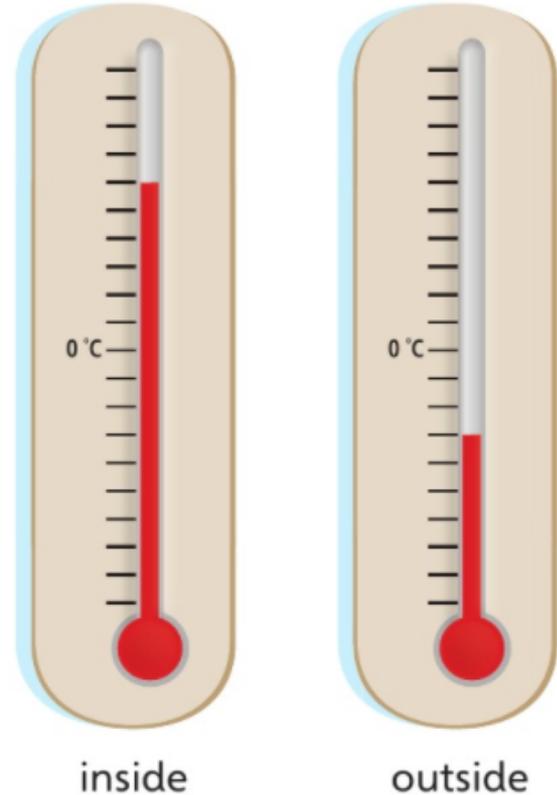
1) These thermometers show the temperature inside and outside on a winter's day. The difference between the two temperatures is 45°C .

a) What is the inside temperature?

The inside temperature is _____ $^{\circ}\text{C}$.

b) What is the outside temperature?

The outside temperature is _____ $^{\circ}\text{C}$.



2) Tick the pair of numbers that has the biggest difference.

a) -4 and 12

b) -8 and 9

c) -20 and -11

DIVE DEEPER 1 ANSWERS

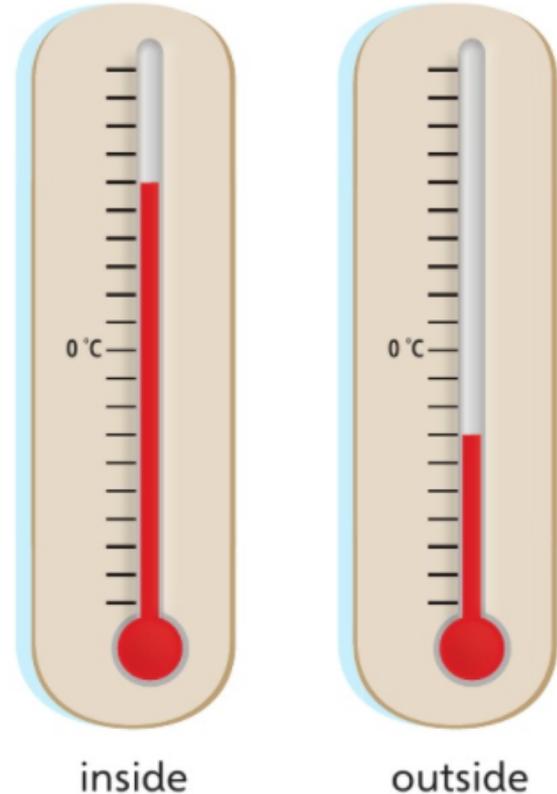
1) These thermometers show the temperature inside and outside on a winter's day. The difference between the two temperatures is 45°C .

a) What is the inside temperature?

The inside temperature is 30°C .

b) What is the outside temperature?

The outside temperature is -15°C .



2) Tick the pair of numbers that has the biggest difference.

a) -4 and 12

b) -8 and 9 ✓

c) -20 and -11

DIVE DEEPER 2

3a) This sequence increases by 7 each time.

What are the missing numbers?

____, -16, ____, -2, ____, ____

b) Another sequence decreases by the same amount each time.

What are the missing numbers?

26, 14, ____, ____, -22, ____

c) This sequence decreases by the same amount each time.

What are the missing numbers?

19, ____, 7, ____, -5, ____

d) What is the 10th number in the sequence in each sequence?

Spicy Challenge: Can you write an algebraic formula for these sequences?

DIVE DEEPER 2 ANSWERS

3a) This sequence increases by 7 each time.

What are the missing numbers?

$-23, -16, -9, -2, 5, 12, \dots, 40$ $7n - 30$

b) Another sequence decreases by the same amount each time.

What are the missing numbers?

$26, 14, 2, -10, -22, -34, \dots, -82$ $-12n + 38$

c) This sequence decreases by the same amount each time.

What are the missing numbers?

$19, 13, 7, 1, -5, -11, \dots, -35$ $-6n + 25$

d) What is the 10th number in the sequence in each sequence?

Spicy Challenge: Can you write an algebraic formula for these sequences?

DIVE DEEPER 3

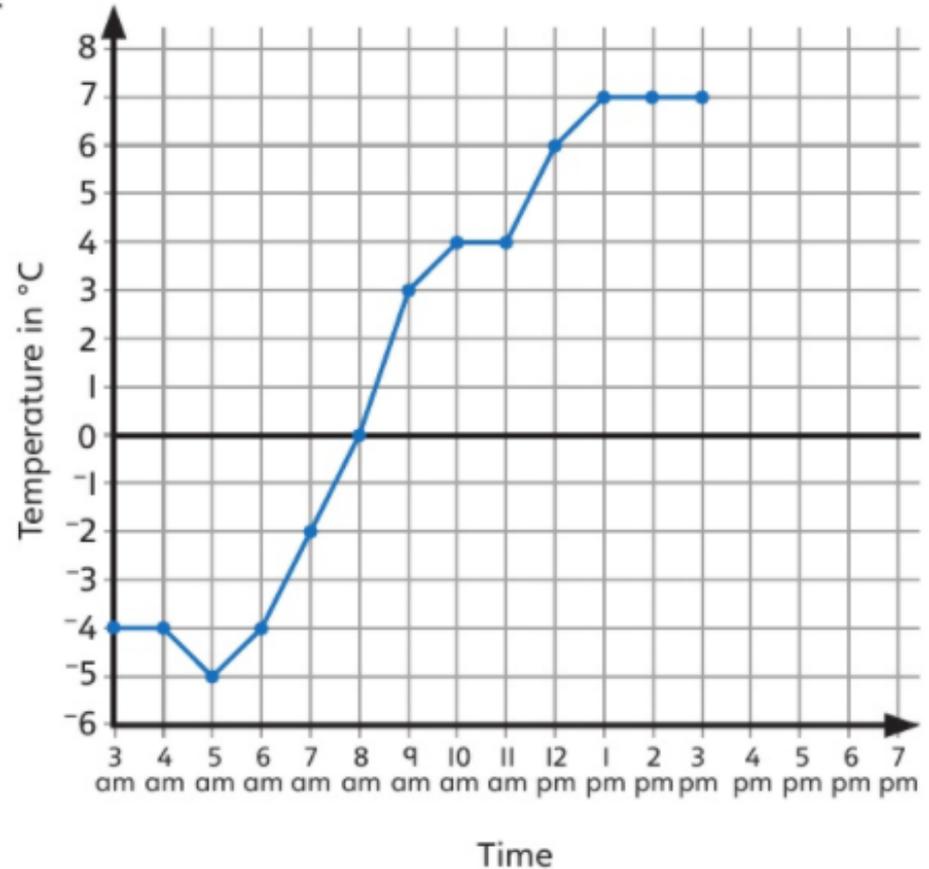
5) The graph shows the temperature in $^{\circ}\text{C}$ from 3am to 3pm on a winter's day.

a) How many degrees warmer was it at 1pm than at 5am?

It was $\underline{\quad}$ $^{\circ}\text{C}$ warmer.

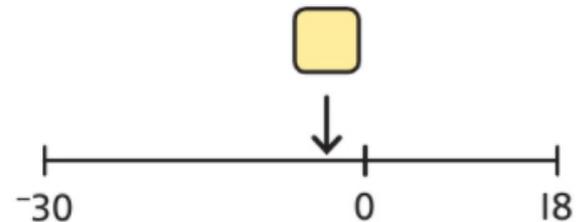
b) At 7pm the temperature was 8 degrees colder than 3pm. What was the temperature at 7pm?

The temperature at 7pm was $\underline{\quad}$ $^{\circ}\text{C}$.



6) The numbers 18 and -30 are shown on this number line.

Calculate the value of the half-way point.



DIVE DEEPER 3 ANSWERS

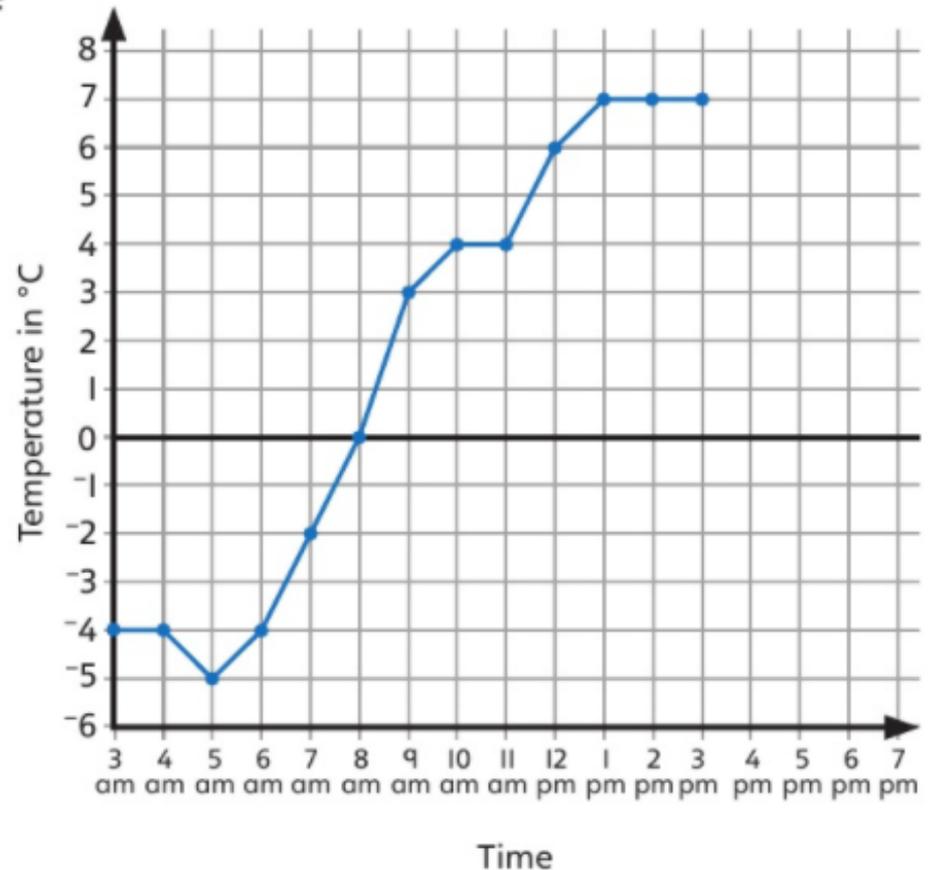
5) The graph shows the temperature in $^{\circ}\text{C}$ from 3am to 3pm on a winter's day.

a) How many degrees warmer was it at 1pm than at 5am?

It was 12°C warmer.

b) At 7pm the temperature was 8 degrees colder than 3pm. What was the temperature at 7pm?

The temperature at 7pm was -1°C .



6) The numbers 18 and -30 are shown on this number line.

Calculate the value of the half-way point.

