

Warm-Up From Grade 5 & Yesterday

Date: Sept. 11



What place value is the underlined digit?

A) 6 7 8 9 0

Thousands

B) 4 3 6 9

Tens

c) 5 4 8 6 0 0

Hundred - thousands

ones

Write the following in expanded form 50 123

Draw tiles for a) $50\ 000 + 100 + 20 + 3$
written five - thousand

one hundred twenty - three

Yellow Shaded $\Rightarrow \oplus$

a) • • • • •

b) ○ ○ ○ ○ ○ ○ ○ ○

Red unshaded $\Rightarrow \ominus$

Homework solutions



1a)  is (-7)

1c)  is $(+4)$

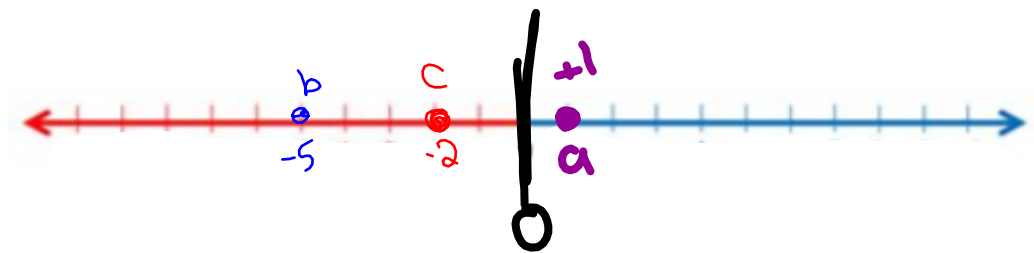
2a) -6 is 

2c) +5 is 

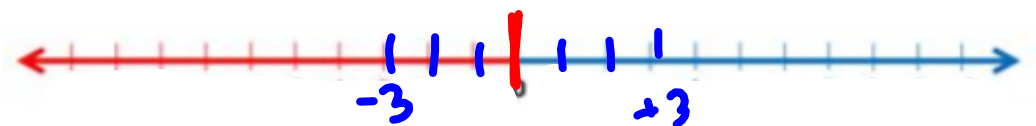
3a) +1

3b) -5

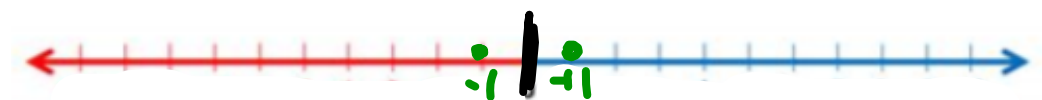
3c) -2



#4a) +3 is opposite to -3

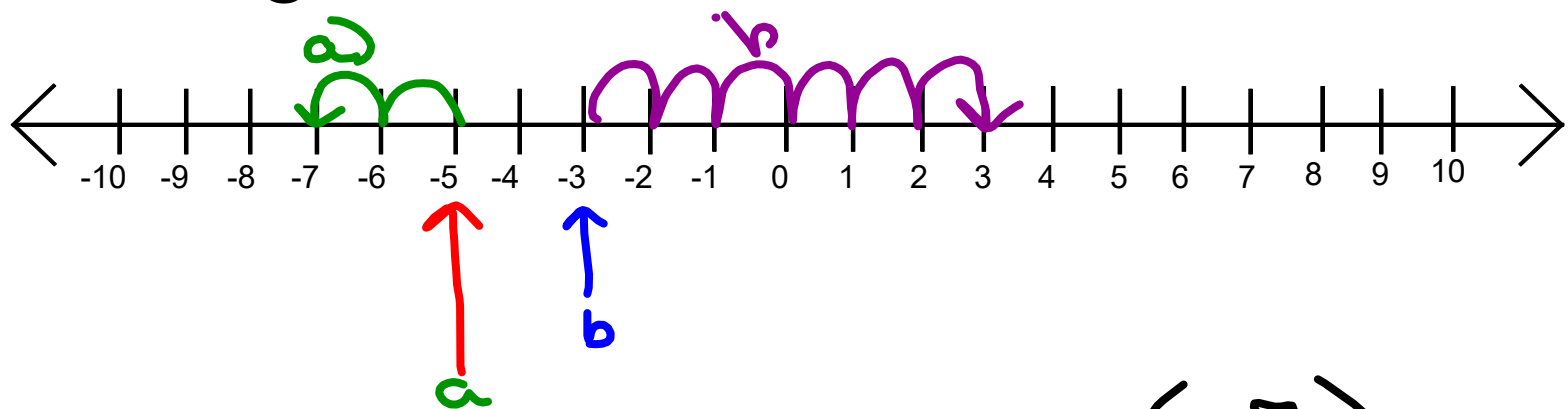


4c) -1 is opposite to +1



The pattern I see is Same distance from zero

What Integer am I?



a. 2 units to the left of -5 $\Rightarrow (-7)$

b. 6 units to the right of -3 $\Rightarrow (+3)$

Zero $\Rightarrow$ $\begin{matrix} \bigcirc & \bullet \\ (+1) & (-1) \end{matrix}$

Can you represent (-5) with tiles in 2 ways? (Hint: Zero pairs)

1st way


2nd way


Can you represent $(+3)$ with tiles in 2 ways?

1st way


2nd way


3rd way


Describe a situation that could represent each integer below:

a) 100 b) -4

↓
 NO
 Symbol
 understood


a) Lucas gave me \$100

c) I lost \$4

I fell down 4 steps

Class/Homework

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#5(abcd)

#6ace

#7ab

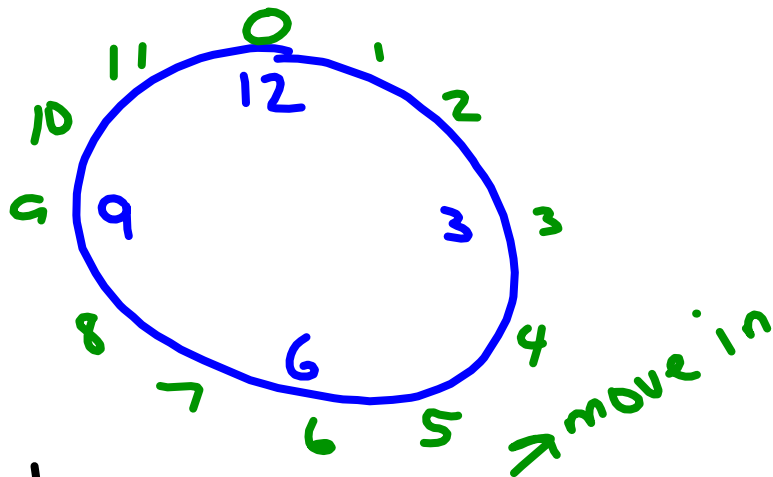
9abcd

Hint use a number line

10a



5a) hole (-1 m)
b) deposit (+50)
c) sky (+11000)



Births

↓
adds to population
⊕

Deaths

⊖
takes
from pop

Imm

⊕

Emm

⊖

↑ move
out

5. Write an integer to represent each situation.
- a) Sascha dug a hole 1 m deep.
 - b) Vincent deposited \$50 in his bank account.
 - c) A plane flies at an altitude of 11 000 m.
 - d) A submarine travels at a depth of 400 m.

6. Use an integer to represent each situation.
Then use yellow or red tiles to model each integer. Draw the tiles.
- a) 12°C below zero
 - b) 10 m above sea level
 - c) 9 s before take-off
 - d) a drop of \$2 in the price of a movie ticket
 - e) a parking spot 5 levels below ground level

Shaded +

Unshade -

7. Describe a situation that could be represented by each integer.

- a) 125
- b) -22
- c) -900
- d) 42 000
- e) 4



9. We measure time in hours. **Show work**

Suppose 12 noon is represented by the integer 0.

- a) Which integer represents 1 P.M. the same day?
- b) Which integer represents 10 A.M. the same day?
- c) Which integer represents 12 midnight the same day?
- d) Which integer represents 10 P.M. the previous day?



10. Statistics Canada reported these data about Canada's population.

Years	Births	Deaths	Immigration	Emigration
1961–1966	2 249 000	731 000	539 000	280 000
1996–2001	1 705 000	1 089 000	1 217 000	376 000

- a) Which numbers can be represented by positive integers? By negative integers? Explain your choices.
- b) Choose one time period. Use a number line to explain the relationship between births and deaths.

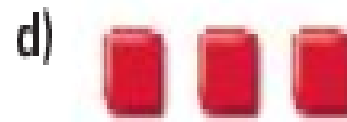
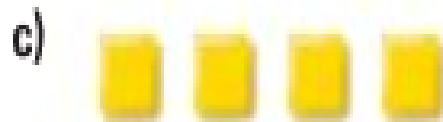
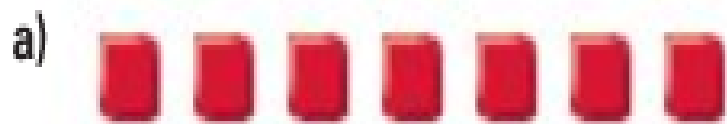


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Practice

1. Write the integer modelled by each set of tiles.



2. Use yellow or red tiles to model each integer. Draw the tiles.

a) -6

b) $+8$

c) $+5$

d) -2

e) $+11$

f) -4

g) $+2$

h) -9

<http://www.learnalberta.ca/content/mesg/html/math6web/index.html?page=lessons&lesson=m6lessonsshell06.swf>

3. Mark these integers on a number line.

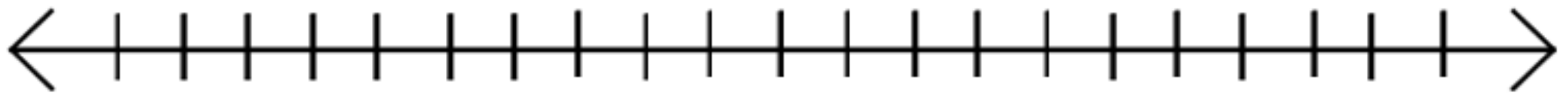
Tell how you knew where to place each integer.

a) $+1$

b) -5

c) -2

d) $+9$



4. Write the opposite of each integer.

Mark each pair of integers on a number line.

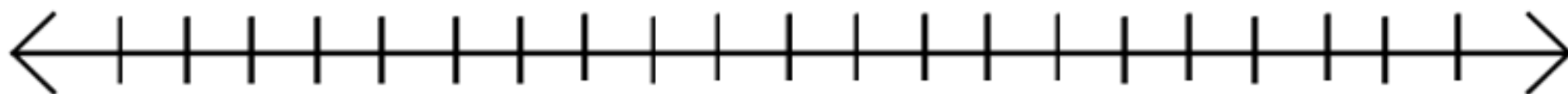
Describe any patterns you see.

a) $+3$

b) -1

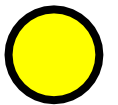
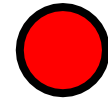
c) -19

d) $+10$



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7. Describe a situation that could be represented by each integer.

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8. Describe two situations in which you might use negative and positive integers. Write integers for your situations.



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