



No talking

Warm Up Grade 7

Date: _____

To be handed in

Copy out question then answer

Adding Integers

(a) $(-9) + (-4)$

(b) $(+8) + (-2)$

(c) $(+12) + (-14)$

(d) $(-19) + (-6)$

(e) $(+15) + (-8)$

(f) $(-9) + (+9)$

(g) $(+8) + (+4)$

(h) $(-11) + (+15)$

(i) $(+16) + (-21)$

(j) $(-4) + (-7)$

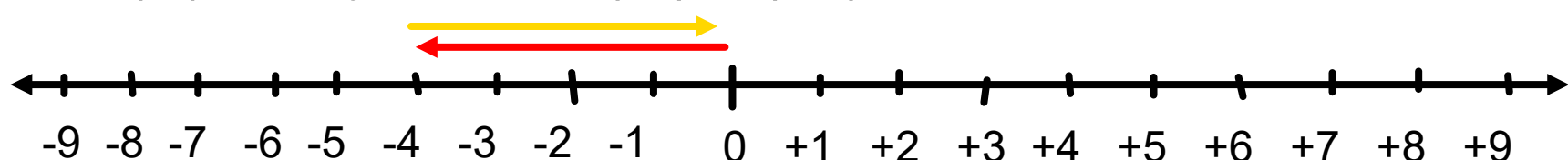
8a,(i) $(-4) + (+7) = +3$

b) (i) Went down 4 steps turned and went up 7. How far am I from my starting point?

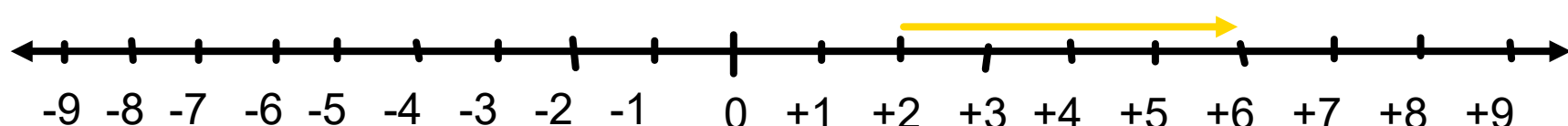
8a,(ii) $(+8) + (-3) = +5$

b) (ii) I had \$8 and I spent \$3 at the store. How much do I have left?

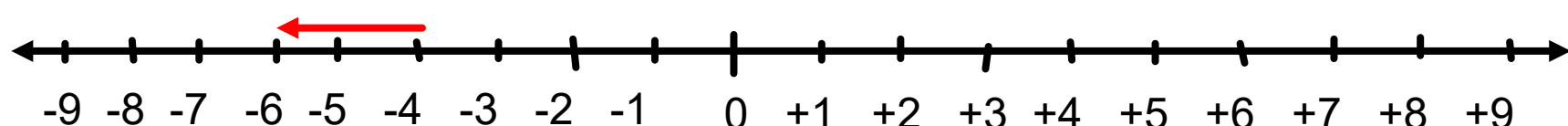
9)a) Always True $(-4) + (+4) = 0$



9)b) Always False $(+2) + (+4) = +6$

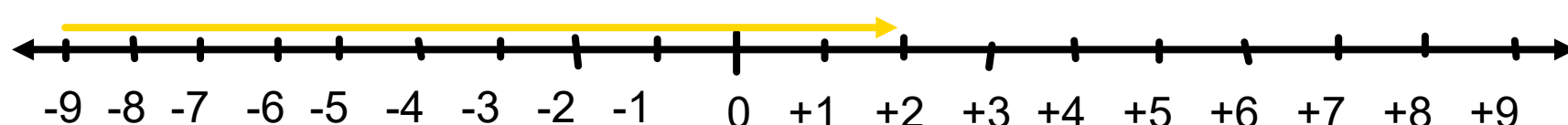
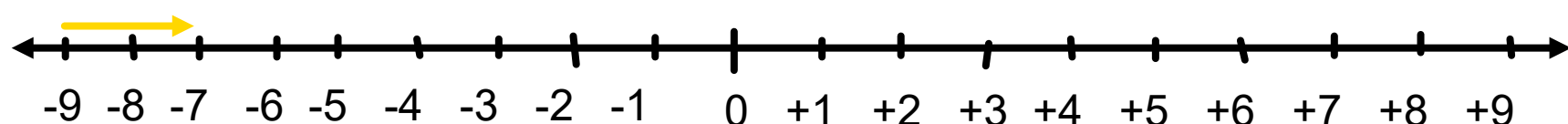


9)c) Always True $(-4) + (-2) = 0$



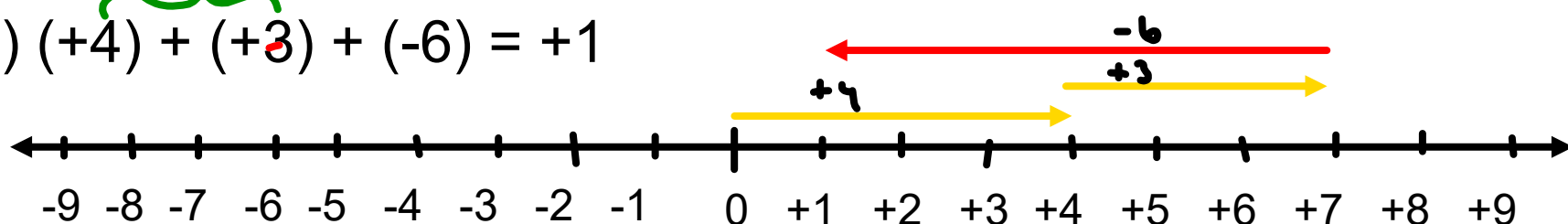
9)d) Sometimes True $(-9) + (+2) = -7$

$(-9) + (+11)$

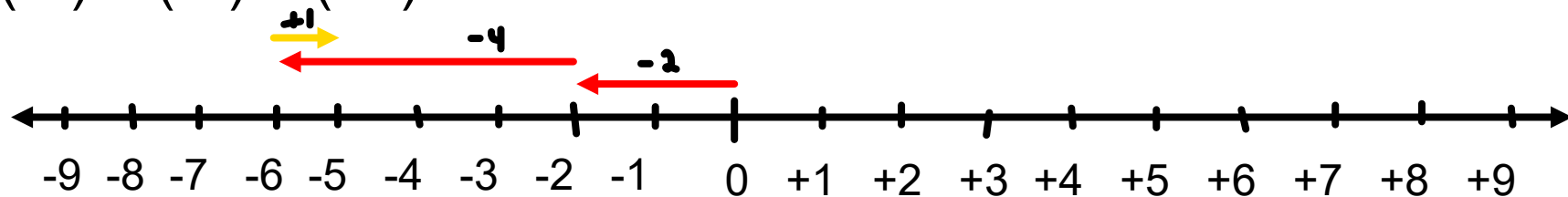


10a) $(+4) + (+3) + (-6) = +1$

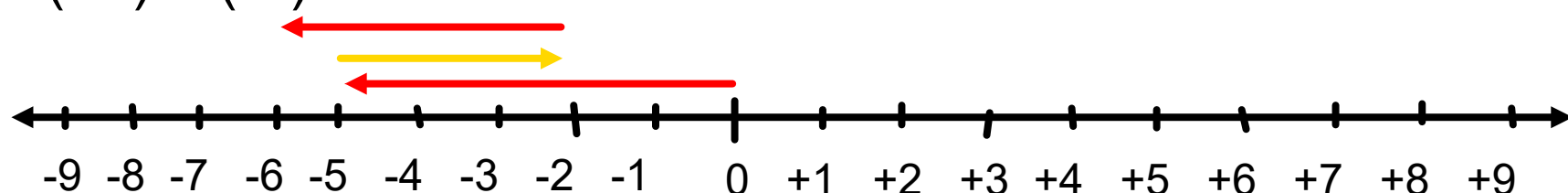
Handwritten notes: $(+7)$ in green, $(+1)$ in a blue box, and $+(-6)$ in red.



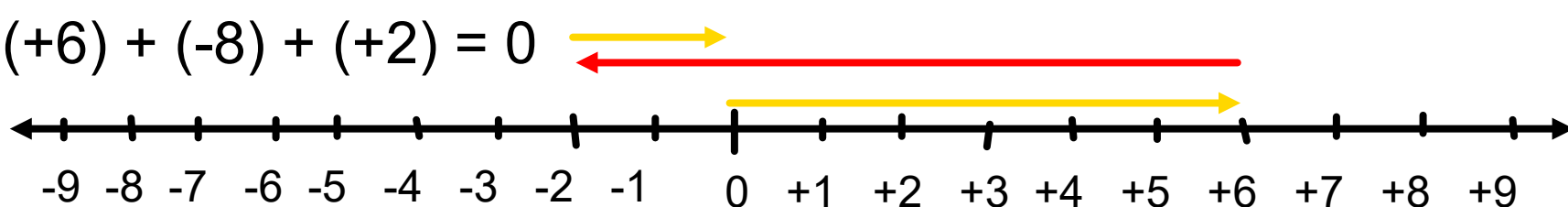
10b) $(-2) + (-4) + (+1) = -5$



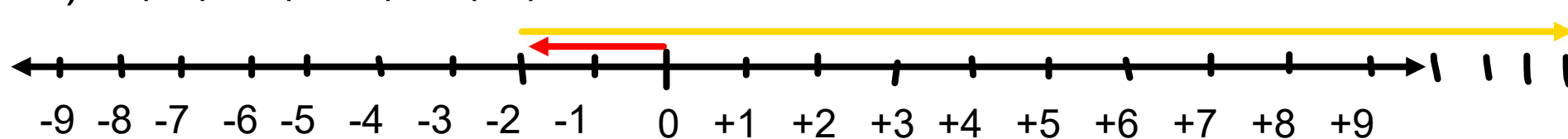
10c) $(-5) + (+3) + (-4) = -6$



10d) $(+6) + (-8) + (+2) = 0$



11) $(-2) + (+15) + (-7) = +6$



homework solutions

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4. a) $(+4) + (-1) = +3$

b) $(-3) + (-2) = -5$

* c) $(-5) + (+1) = -4$

d) $(+6) + (+3) = +9$

e) $(-4) + (-8) = -12$

f) $(+4) + (+8) = +12$

5. a) $(+3) + (+2) = +5$

b) $(-5) + (-1) = -6$

* c) $(-10) + (+8) = -2$

d) $(+6) + (-5) = +1$

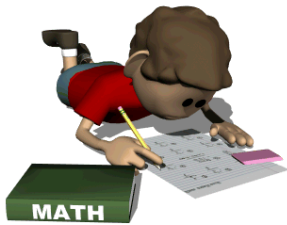
* e) $(-8) + (+8) = 0$

f) $(-5) + (+12) = +7$

Homework pg. 65

- # 1(a,c,e),
- #2,
- #3(a,b,c),
- #6(a,b),
- #7(a,b,c,d),
- #8a

Extra
4 b d f
5 b d f



→ Model Tiles

→ Model adding
→ Tile

or
1: no

→ Rule

→ same (add #)
→ differen (what
but
and
go with
who
you have
more of

Textbook Page 65

1. Use coloured tiles to model each integer in two different ways. Draw the tiles.

- | | |
|---------|---------|
| a) -5 | b) 0 |
| c) $+8$ | d) -1 |
| e) $+3$ | f) -7 |

3. What sum does each set of tiles model? How do you know you are correct? Write the addition equations.

a) 6 yellow tiles and 1 red tile
b) 5 yellow tiles and 7 red tiles
c) 4 yellow tiles and 4 red tiles

2. Suppose you have 8 red tiles. How many yellow tiles would you need to model $+3$? How do you know?



4. Use coloured tiles to add. Draw pictures of the tiles you used.

a) $(+4) + (-1)$ b) $(-3) + (-2)$
c) $(-5) + (+1)$ d) $(+6) + (+3)$
e) $(-4) + (-8)$ f) $(+4) + (+8)$

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5. Use a number line to add.

Write the addition equations.

- a) $(+3) + (+2)$ b) $(-5) + (-1)$
c) $(-10) + (+8)$ d) $(+6) + (-5)$
e) $(-8) + (+8)$ f) $(-5) + (+12)$

6. a) Add. $(+4) + (-5)$

b) Find 4 different pairs of integers that have the same sum as part a.

$$(+4) + (-5) = (-1)$$

b) $(-7) + (6)$

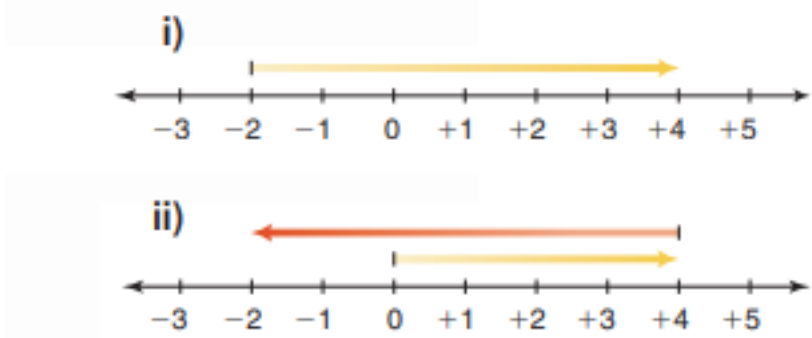
$$(10) + (-11)$$

7. Write an addition equation for each situation.

- a) Puja earned \$50, and spent \$20.
How much did Puja then have?
- b) The temperature is 5°C , then drops 10°C . What is the final temperature?
- c) The population of a city was 124 000, then it dropped by 4000 people. What was the population then?
- d) A plane was cruising at an altitude of 12 000 m, then dropped 1200 m. What was the cruising altitude then?

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- 8.** a) Write the addition equation modelled by each number line.
b) Describe a situation that each number line could represent.



- 9.** Each integer below is written as the sum of consecutive integers.
 $(+5) = (+2) + (+3)$
 $(+6) = (+1) + (+2) + (+3)$
Write each of these integers as the sum of consecutive integers.
- | | | |
|--------|-------|-------|
| a) +10 | b) 0 | c) +2 |
| d) +7 | e) +4 | f) +8 |