

unit 2 integers test**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

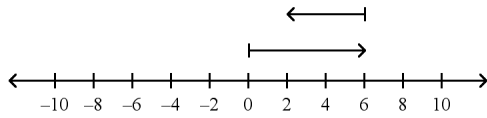
- _____ 1. Let one white tile represent $+1$ and one black tile represent -1 .
Write the integer modelled by this set of tiles.



- a. $+1$ b. $+7$ c. -1 d. $+3$
- _____ 2. Let one white tile represent $+1$ and one black tile represent -1 .
You have 10 black tiles. What tiles do you need to model 0?
a. 10 black b. 10 white c. 9 white d. 9 black
- _____ 3. Let one white tile represent $+1$ and one black tile represent -1 .
You have 8 white tiles and 7 black tiles. What additional tiles do you need to model -2 ?
a. 1 black b. 3 white c. 3 black d. 1 white
- _____ 4. Let one white tile represent $+1$ and one black tile represent -1 .
What sum is modelled by 6 white tiles and 2 black tiles?
a. $+4$ b. $+8$ c. -4 d. $+7$
- _____ 5. Use coloured tiles to find the sum.
 $(+3) + (+2)$
a. $+1$ b. -1 c. -5 d. $+5$
- _____ 6. Use coloured tiles to find the sum.
 $(-9) + (-3)$
a. $+12$ b. -12 c. $+6$ d. -6
- _____ 7. Add.
 $(-8) + (+12)$
a. $+4$ b. -4 c. -20 d. $+20$

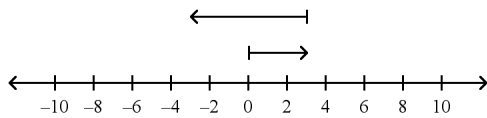
_____ 8. Use a number line to add: $(+6) + (-3)$. Write the addition equation.

a.



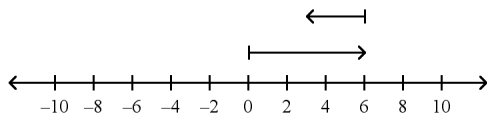
$$(+6) + (-3) = +2$$

b.



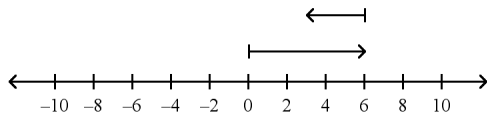
$$(+6) + (-3) = -3$$

c.



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

d.



$$(+6) + (-3) = +3$$

_____ 9. Use a number line to add.

$$(+14) + (+12)$$

a. +23

b. +2

c. +26

d. +31

_____ 10. Use a number line to add.

$$(-3) + (-19)$$

a. -22

b. -16

c. +16

d. +22

_____ 11. The temperature is 15°C and drops 8°C .

Write an addition equation to calculate the final temperature. What is the final temperature?

a. $(+8) + (-15) = -7; -7^{\circ}\text{C}$

c. $(+15) + (+8) = +9; 9^{\circ}\text{C}$

b. $(+15) + (-8) = +7; 7^{\circ}\text{C}$

d. $(+8) + (+15) = +23; 23^{\circ}\text{C}$

_____ 12. Sam owns a small business. He made a profit of \$7 on Saturday and lost \$10 on Sunday.

Find the total profit or loss for the weekend.

a. \$17 profit

b. \$3 loss

c. \$3 profit

d. \$17 loss

_____ 13. During the day the temperature was 3°C . At night, the temperature dropped 9°C .

What was the temperature at night?

a. -6°C

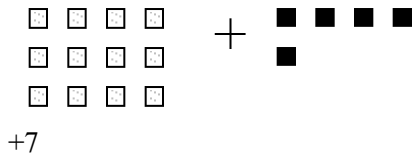
b. 6°C

c. -12°C

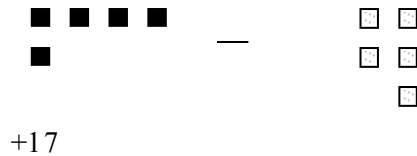
d. 12°C

- _____ 14. Let one white tile represent $+1$ and one black tile represent -1 .
Use tiles to subtract.
 $(+12) - (-5)$

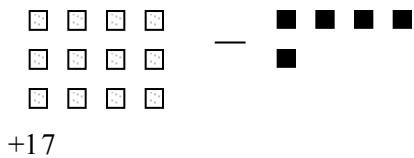
a.



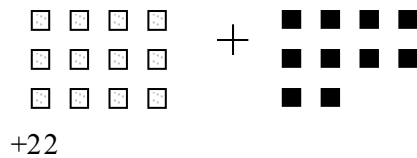
c.



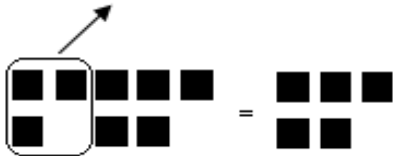
b.



d.



- _____ 15. Let one black tile represent -1 .
Write the subtraction equation modelled by this diagram.



- a. $(-8) - (-3) = +5$
b. $(+8) - (+3) = +5$

- c. $(+8) - (+3) = -5$
d. $(-8) - (-3) = -5$

- _____ 16. Use tiles to subtract.
 $(+5) - (+7)$

- a. -2 b. $+2$ c. $+12$ d. -12

- _____ 17. Use tiles to subtract.
 $(-3) - (-2)$

- a. -1 b. -5 c. $+5$ d. $+1$

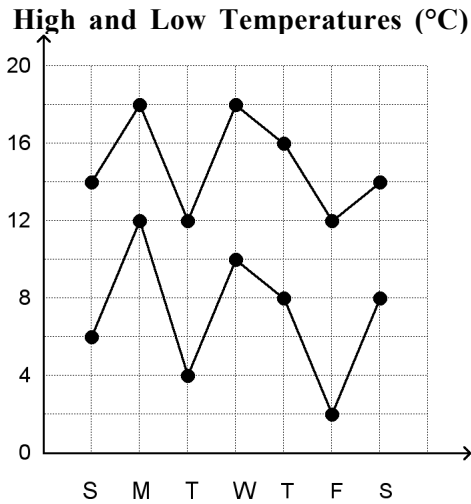
- _____ 18. Use tiles to subtract.
 $(+2) - (-7)$

- a. -5 b. $+9$ c. -9 d. $+5$

- _____ 19. Bryan gets on an elevator at the 35th floor. The elevator goes down 17 floors then up 9 floors.
At what floor does it finally stop?

- a. 61 b. 43 c. 9 d. 27

- _____ 20. The graph shows the high and low temperatures in a week from Sunday to Saturday.



On which day was the difference between the high and low temperatures the greatest?

- a. Friday b. Thursday c. Wednesday d. Tuesday

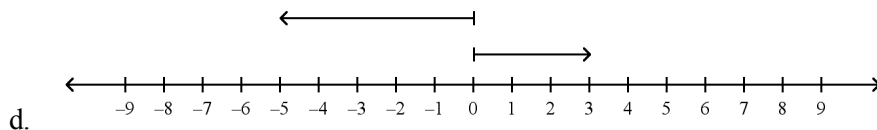
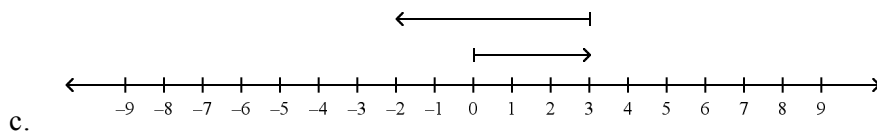
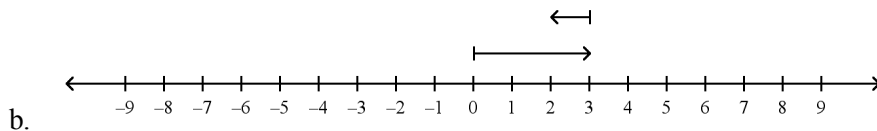
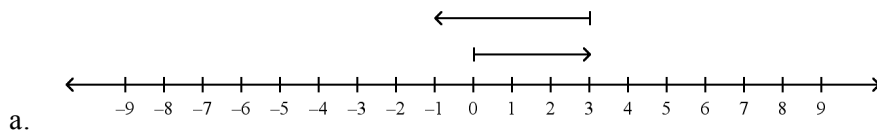
- _____ 21. Rewrite using addition.

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

- a. $(+6) + (-1)$ b. $(+7) + (-6)$ c. $(+6) + (-7)$ d. $(+7) + (+6)$

- _____ 22. Use a number line to subtract.

$$(+3) - (+5)$$



- _____ 23. Determine the increase from -49 to -35 .

- a. -14 b. $+84$ c. -84 d. $+14$

- _____ 24. A submarine at sea level dives 9 m and then another 8 m.

Write the final depth of the submarine as an integer.

- a. -13 m b. -17 m c. $+17$ m d. $+13$ m

Name: _____

ID: A

_____ 25. Use a number line to subtract.
 $(-8) - (+7)$

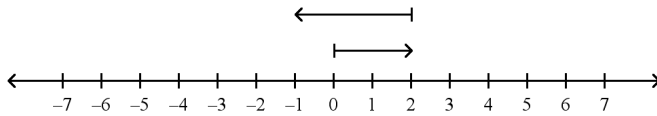
a. -15

b. $+1$

c. $+15$

d. -1

_____ 26. Write an addition equation modelled by the number line.



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

c. $(+2) + (-3) = -1$

b. $(+2) + (-3) = +1$

d. $(-3) + (+2) = +5$