

Integers Quiz 1

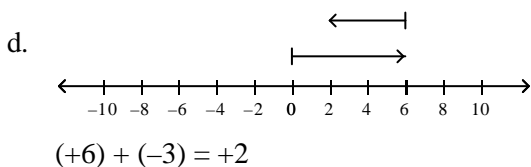
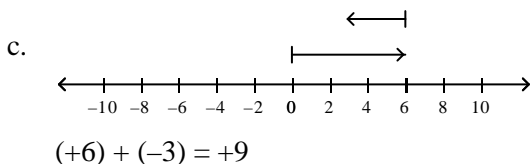
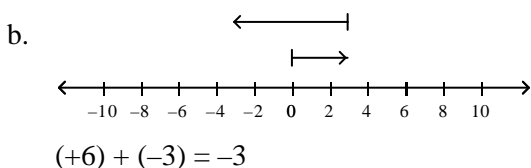
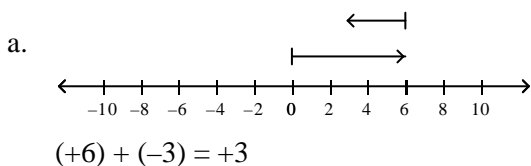
Multiple Choice

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 .
You have 3 white tiles. What tiles do you need to model 0?
a. 3 black b. 3 white c. 2 white d. 2 black
- _____ 2. 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. 3 black b. 3 white c. 1 white d. 1 black
- _____ 3. Let one white tile represent $+1$ and one black tile represent -1 .
What sum does this set of tiles model? Write the addition equation.



- a. $(-6) + (+2) = -4$ c. $(+6) + (-2) = +4$
b. $(+6) + (+2) = +8$ d. $(+6) + (+2) = +6$
- _____ 4. Use coloured tiles to find the sum: $(-9) + (-3)$
a. $+12$ b. -12 c. -6 d. $+6$
- _____ 5. Use coloured tiles to find the sum: $(+6) + (-4)$
a. $+2$ b. -2 c. $+10$ d. -10
- _____ 6. Use a number line to add: $(+6) + (-3)$. Write the addition equation.



- _____ 7. Use a number line to add: $(-3) + (-19)$
a. -22 b. $+22$ c. $+16$ d. -16

- ___ 8. The temperature is 15°C and drops 8°C .
Write an addition equation to calculate the final temperature. What is the final temperature?
- a. $(+15) + (-8) = +7$; 7°C c. $(+15) + (+8) = +9$; 9°C
b. $(+8) + (-15) = -7$; -7°C d. $(+8) + (+15) = +23$; 23°C
- ___ 9. In a golf tournament, Joey got a score of $+11$ and Melissa got a score of -5 .
What was their combined score?
- a. -16 b. $+16$ c. -6 d. $+6$
- ___ 10. 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. -12°C c. 6°C d. 12°C

Short Answer

11. Let one white tile represent $+1$ and one black tile represent -1 .
- a) Shade the tiles in the diagrams to model:
i) a positive integer
ii) a negative integer



- b) Name the integers.
12. Copy and complete.
 $(+6) + \square = (-3)$
13. Name all pairs of integers that have a sum of $+2$.

+3	-6	+9
-7	+8	-1
+11	-9	

14. Copy and complete.
 $(+5) + (-2) + \square = (+7)$
15. The table shows the scores for teams of students playing a series of board games.

	Game 1	Game 2	Game 3
Team 1	-10	5	4
Team 2	-3	2	8

- a) Determine the total score for each team.
b) Which team had the higher score?

Integers Quiz 1 Answer Section

MULTIPLE CHOICE

1. ANS: A PTS: 1 DIF: Easy REF: 2.1 Representing Integers
LOC: 7.N6 TOP: Number KEY: Conceptual Understanding
2. ANS: A PTS: 1 DIF: Moderate REF: 2.1 Representing Integers
LOC: 7.N6 TOP: Number KEY: Procedural Knowledge
3. ANS: C PTS: 1 DIF: Easy REF: 2.2 Adding Integers with Tiles
LOC: 7.N6 TOP: Number KEY: Conceptual Understanding
4. ANS: B PTS: 1 DIF: Moderate REF: 2.2 Adding Integers with Tiles
LOC: 7.N6 TOP: Number KEY: Procedural Knowledge
5. ANS: A PTS: 1 DIF: Moderate REF: 2.2 Adding Integers with Tiles
LOC: 7.N6 TOP: Number KEY: Procedural Knowledge
6. ANS: A PTS: 1 DIF: Easy
REF: 2.3 Adding Integers on a Number Line LOC: 7.N6
TOP: Number KEY: Conceptual Understanding
7. ANS: A PTS: 1 DIF: Moderate
REF: 2.3 Adding Integers on a Number Line LOC: 7.N6
TOP: Number KEY: Procedural Knowledge
8. ANS: A PTS: 1 DIF: Moderate
REF: 2.3 Adding Integers on a Number Line LOC: 7.N6
TOP: Number KEY: Problem-solving Skills
9. ANS: D PTS: 1 DIF: Moderate
REF: 2.3 Adding Integers on a Number Line LOC: 7.N6
TOP: Number KEY: Problem-solving Skills
10. ANS: A PTS: 1 DIF: Moderate
REF: 2.3 Adding Integers on a Number Line LOC: 7.N6
TOP: Number KEY: Problem-solving Skills

SHORT ANSWER

11. ANS:
Answers may vary.
For a positive integer, there must be more white tiles than black tiles.
For a negative integer, there must be more black tiles than white tiles.

PTS: 1 DIF: Moderate REF: 2.1 Representing Integers
LOC: 7.N6 TOP: Number KEY: Communication
12. ANS:
-9

PTS: 1 DIF: Moderate REF: 2.3 Adding Integers on a Number Line
LOC: 7.N6 TOP: Number KEY: Conceptual Understanding
13. ANS:
+3 and -1; -7 and +9; -6 and +8; +11 and -9

PTS: 1
LOC: 7.N6

DIF: Difficult
TOP: Number

REF: 2.2 Adding Integers with Tiles
KEY: Procedural Knowledge

PROBLEM

14. ANS:
+4

PTS: 1
LOC: 7.N6

DIF: Difficult
TOP: Number

REF: 2.2 Adding Integers with Tiles
KEY: Problem-solving Skills

15. ANS:
a) Team 1: -1
Team 2: 7
b) Team 2

PTS: 1
LOC: 7.N6

DIF: Difficult
TOP: Number

REF: 2.3 Adding Integers on a Number Line
KEY: Problem-solving Skills