

Name: _____

Hour: _____

Integers Banking Project

Operations with Positive and Negative Rational Numbers Unit

7th Grade

Integers or positive and negative rational numbers are used every day in life. One of the most common uses of integers is in money management.

During this unit long project, you will be balancing (accounting for all money in and out) a checking account. You will be given deposits, withdrawals, fees, interest, bill payment amounts, credits, and various other dollar amounts that will need to be added or subtracted from your account. You are expected to keep your account current and accurately account for all monies in and out.

The following rubric is to be attached to your checkbook register when handed in at the end of the unit. You are responsible for all materials. No replacements will be given. This project will be scored as an assessment.

Grading Rubric for Banking Project

| | 3 Points | 2 Points | 1 Point | Self-Assessment | Score |
|---------------------------------|--|--|--|-----------------|-------|
| Accuracy of Computation | Your checkbook balances. You have the correct account balance at the end of the project. | Your account balance is off by more than \$10.00. | Your account balance is off by more than \$10.00. | | |
| Correct Labeling | All credits and debits are labeled properly. | No more than 3 credits or debits are labeled improperly. | More than 3 credits or debits are labeled improperly | | |
| Placement of Credits and Debits | All credits and debits are placed in the proper column. | No more than 3 credits and debits are placed in improper column. | More than 3 credits or debits are placed in the improper column. | | |
| Neatness and Legibility | Your checkbook register is neat and legible. | Your checkbook register is sometimes difficult to decipher. | Your checkbook register is frequently difficult to decipher. | | |

Total score: /12

Integers

An integer is _____

Give 4 examples of an integer. _____

Draw a number line and picture your integers. ←-----→

Give 3 examples of numbers that are not integers. _____

Negative integers are numbers that are _____.

Positive integers are numbers that are _____.

A number that is neither positive or negative is _____.

Name 2 words that could be used to show a negative direction. _____

Name 2 words that could be used to show a positive direction. _____

Graph { 4, -6, 0, -2, 1 } on a number line. ←-----→

Write an integer for each situation.

1. 16 degrees below normal. _____
2. a loss of 20 yards _____
3. a deposit of 15 dollars _____
4. 68 feet below sea level _____
5. 7 inches more than normal _____
6. a bank withdrawal of \$1000 _____
7. an elevator goes up 12 floors _____
8. a game piece moves 5 spaces to the left _____
9. Leroy the gerbil gained .6 ounces a day _____
10. Seven degrees above normal _____

1. $6 + 7 =$ _____

sure _____ not sure _____

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

sure _____ not sure _____

3. $8 - (-2) =$ _____

sure _____ not sure _____

4. $7 \times (-3) =$ _____

sure _____ not sure _____

5. $6 - 11 =$ _____

sure _____ not sure _____

6. $(-3) - (-4) =$ _____

sure _____ not sure _____

7. $(-9) \times (-4) =$ _____

sure _____ not sure _____

8. $-5 - 4 =$ _____

sure _____ not sure _____

9. $10 + 5 =$ _____

sure _____ not sure _____

10. $(-6) + (-5) =$ _____

sure _____ not sure _____

11. $56 \div 8 =$ _____

sure _____ not sure _____

12. $14 - (-3) =$ _____

sure _____ not sure _____

13. $(-7) + (-8) =$ _____

sure _____ not sure _____

14. $(-8) \div (-2) =$ _____

sure _____ not sure _____

15. $(-9) - (-6) =$ _____

sure _____ not sure _____

16. $5 \times (-3) =$ _____

sure _____ not sure _____

17. $(-12) + (4) =$ _____

sure _____ not sure _____

18. $(-5) + (-3) =$ _____

sure _____ not sure _____

19. $(+4) - (+2) =$ _____

sure _____ not sure _____

20. $(-7) - 6 =$ _____

sure _____ not sure _____

Integers and the number line

Period _____

Use a numberline to find each sum.

1) $1 + (-7)$

2) $(-6) + 2$

3) $8 + (-3)$

4) $(-3) + 6$

5) $(-2) + (-7)$

6) $7 + (-7)$

7) $(-5) + (-1)$

8) $(-4) + 6$

9) $(-3) + 5$

10) $5 + (-8)$

11) $(-4) + (-7) + 4$

12) $5 + (-1) + 7$

13) $(-7) + 6 + 7$

14) $7 + 5 + (-6)$

15) $6 + (-3) + (-5)$

16) $(-3) + 6 + 4$

Illustrative Mathematics

7.NS Distances Between Houses

Alignment 1: 7.NS.A.1

Not yet tagged

Aakash, Bao Ying, Chris and Donna all live on the same street as their school, which runs from east to west.

- Aakash lives $5\frac{1}{2}$ blocks to the west.
 - Bao Ying lives $4\frac{1}{4}$ blocks to the east.
 - Chris lives $2\frac{3}{4}$ blocks to the west.
 - Donna lives $6\frac{1}{2}$ blocks to the east.
- a. Draw a picture that represents the positions of their houses along the street.
 - b. Find how far is each house from every other house?
 - c. Represent the relative position of the houses on a number line, with the school at zero, points to the west represented by negative numbers, and points to the east represented by positive numbers.
 - d. How can you see the answers to part (b) on the number line? Using the numbers (some of which are positive and some negative) that label the positions of houses on the number line, represent these distances using sums or differences.

Adding integers using markers

Period _____

Find each sum.

1) $2 + (-7)$

2) $(-2) + (-7)$

3) $(-4) + 6$

4) $6 + (-7)$

5) $(-1) + 1$

6) $(-5) + (-7)$

7) $(-2) + (-3)$

8) $8 + (-6)$

9) $5 + (-3)$

10) $(-5) + 4$

Subtracting integers using a number line

Period _____

1) $1 - 4$

2) $(-2) + (-4)$

3) $3 + (-4)$

4) $(-2) - (-8)$

5) $(-1) + (-8)$

6) $4 - (-8)$

7) $7 + (-4)$

8) $7 - 4$

9) $(-7) + 4$

10) $(-5) + 8$

11) $(-6) + 8$

12) $(-3) - (-4)$

13) $3 - (-8)$

14) $(-8) + 8$

15) $(-4) - 6$

16) $(-4) + (-4)$

17) $6 - 4$

18) $(-1) - 4$

19) $(-1) - 8$

20) $2 - (-4)$