

# Integer Operations

## Long-Term Memory Review – Grade 7

### Review 1

1. Use the words below that best complete the paragraph. HINT: Words can be used more than once.

*Opposite*      *Addition*      *Multiplication*      *Reciprocal*

In math, two common math operations that exist are \_\_\_\_\_ and \_\_\_\_\_.

2. Complete the rules for addition and multiplication in the tables below.

$(+) + (+) = \underline{\hspace{2cm}}$	$(+) \times (+) = \underline{\hspace{2cm}}$
$(-) + (-) = \underline{\hspace{2cm}}$	$(-) \times (-) = \underline{\hspace{2cm}}$
$(+) + (-) = \underline{\hspace{2cm}}$	$(+) \times (-) = \underline{\hspace{2cm}}$
$(-) + (+) = \underline{\hspace{2cm}}$	$(-) \times (+) = \underline{\hspace{2cm}}$

3. Find the sum, product, difference, or quotient of the following:

a)  $4 + -7$

b)  $-2 - 5$

c)  $7 \times 5$

d)  $-8 \div -2$

4. Ben and Sue both left Martha's house at the same time. Ben drove 60 miles due east to get home. Sue drove 80 miles due west to get home. How much farther away from Martha's house is Sue than Ben?

- A) 20 miles
- B) 60 miles
- C) 80 miles
- D) 140 miles

5. The high temperature at an Arctic base camp was recorded at  $-34^\circ$ . The next day the temperature was  $-28^\circ$ . What was the change in temperature?

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## Long-Term Memory Review – Grade 7

### Review 2

Use the words below that best complete the paragraph. HINT: Words can be used more than once.

*Opposite*

*Addition*

*Multiplication*

*Reciprocal*

1. In math, two common math operations that exist are \_\_\_\_\_ and \_\_\_\_\_.

2. Complete the rules for addition and multiplication in the tables below.

$$(+)+(+)=\underline{\hspace{2cm}}$$

$$(+)\times(+)=\underline{\hspace{2cm}}$$

$$(-)+(-)=\underline{\hspace{2cm}}$$

$$(-)\times(-)=\underline{\hspace{2cm}}$$

$$(+)+(-)=\underline{\hspace{2cm}}$$

$$(+)\times(-)=\underline{\hspace{2cm}}$$

$$(-)+(+)=\underline{\hspace{2cm}}$$

$$(-)\times(+)=\underline{\hspace{2cm}}$$

3. Find the sum, product, difference, or quotient of the following:

a)  $-1+17$

b)  $(-20)\times 15$

c)  $10-25$

d)  $-8\div -4$

4. Ben and Sue both left Martha's house at the same time. Ben drove 40 miles due east to get home. Sue drove 60 miles due west to get home. How far apart are Ben and Sue?

- A) 20 miles
- B) 50 miles
- C) 80 miles
- D) 100 miles

5. The temperature at a polar science station was  $-33^\circ$  on Monday and  $-36^\circ$  on Tuesday. What was the change in temperature?

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## Long-Term Memory Review – Grade 7

### Review 3

1. Use the words below that best complete the paragraph. HINT: Words can be used more than once.

*Opposite*

*Addition*

*Multiplication*

*Reciprocal*

ALL subtraction problems can be turned into \_\_\_\_\_ problems by simply adding the \_\_\_\_\_ number.

Furthermore, all division problems can be turned into \_\_\_\_\_ problems by multiplying by the \_\_\_\_\_ .

2. Complete the rules for addition and multiplication in the tables below.

$$(+ ) + (+ ) = \underline{\hspace{2cm}}$$

$$(+ ) \times (+ ) = \underline{\hspace{2cm}}$$

$$(- ) + (- ) = \underline{\hspace{2cm}}$$

$$(- ) \times (- ) = \underline{\hspace{2cm}}$$

$$(+ ) + (- ) = \underline{\hspace{2cm}}$$

$$(+ ) \times (- ) = \underline{\hspace{2cm}}$$

$$(- ) + (+ ) = \underline{\hspace{2cm}}$$

$$(- ) \times (+ ) = \underline{\hspace{2cm}}$$

3. Find the sum, product, difference, or quotient of the following:

a)  $-10 + (-7)$

b)  $(-20) \div 5$

c)  $170 - (-20)$

d)  $-8 \times (-2)$

4. On Monday, the Las Vegas dog pound had 36 animals. On Tuesday, 5 animals were placed in homes. On Wednesday, 2 animals came to the dog pound. How many animals does the dog pound have at the start of the day on Thursday?

5. According to the US Geological Survey, the elevation of the highest point in the US is Mt. McKinley at 20,320 feet above sea level. The lowest point in the US is Death Valley at 282 feet below sea level. What is the change in elevation from Mr. McKinley to Death Valley?

# Integer Operations

## Long-Term Memory Review – Grade 7

### Review 4

Use the words below that best complete the paragraph. HINT: Words can be used more than once.

*Opposite*

*Addition*

*Multiplication*

*Reciprocal*

- In math, two common math operations that exist are \_\_\_\_\_ and \_\_\_\_\_ .
- It can be said that ALL subtraction problems can be turned into \_\_\_\_\_ problems by simply adding the \_\_\_\_\_ number. Furthermore, all division problems can be turned into \_\_\_\_\_ problems by multiplying by the \_\_\_\_\_ .
- Complete the rules for addition and multiplication in the tables below.

$(+) + (+) = \underline{\quad}$	$(+) \times (+) = \underline{\quad}$
$(-) + (-) = \underline{\quad}$	$(-) \times (-) = \underline{\quad}$
$(+) + (-) = \underline{\quad}$	$(+) \times (-) = \underline{\quad}$
$(-) + (+) = \underline{\quad}$	$(-) \times (+) = \underline{\quad}$

- Find the sum, product, difference, or quotient of the following:

a)  $-15 + (-7)$

b)  $-20 - (-5)$

c)  $12 \times -7$

d)  $54 \div -3$

- On Monday, the Las Vegas dog pound had 36 animals. On Tuesday, 5 animals were placed in homes. On Wednesday, 2 animals came to the dog pound. On Thursday, 7 animals came to the dog pound and 4 animals were placed in homes. How many animals does the dog pound have at the start of the day on Friday?

# Integer Operations

## Long-Term Memory Review – Grade 7

### Quiz

1. Use the words below that best complete the paragraph. HINT: Words can be used more than once.

*Opposite          Addition          Multiplication          Reciprocal*

In math, two common math operations that exist are \_\_\_\_\_ and \_\_\_\_\_.

It can be said that ALL subtraction problems can be turned into \_\_\_\_\_ problems by simply adding the \_\_\_\_\_ number. Furthermore, all division problems can be turned into \_\_\_\_\_ problems by multiplying by the \_\_\_\_\_ .

2. Complete the rules for addition and multiplication in the tables below.

$(+) + (+) = \underline{\hspace{2cm}}$	$(+) \times (+) = \underline{\hspace{2cm}}$
$(-) + (-) = \underline{\hspace{2cm}}$	$(-) \times (-) = \underline{\hspace{2cm}}$
$(+) + (-) = \underline{\hspace{2cm}}$	$(+) \times (-) = \underline{\hspace{2cm}}$
$(-) + (+) = \underline{\hspace{2cm}}$	$(-) \times (+) = \underline{\hspace{2cm}}$

3. Find the sum, product, difference, or quotient of the following:

b)  $-14 + 7$

b)  $(-20) \times 5$

c)  $17 - 25$

d)  $-8 \div -2$

4. On Monday, the Las Vegas dog pound had 36 animals. On Tuesday, 6 animals were placed in homes. On Wednesday, 2 animals came to the dog pound. On Thursday, 7 animals came to the dog pound and 4 animals were placed in homes. How many animals does the dog pound have at the start of the day on Friday?
5. According to the US Geological Survey, the elevation of Las Vegas, NV is 2001 feet. The elevation of the Colorado River as it flows through Nevada is 479 feet. As water flows from the Las Vegas Valley to the Colorado River, what is its change in elevation?

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## Long-Term Memory Review – Grade 7

### Answers

#### Review 1- Answers

- 1) addition; multiplication
- 2) Column 1: +, -, sign of larger absolute value, sign of larger absolute value  
Column 2: +, +, -, -
- 3) a) -3                      b) -7                      c) 35                      d) 4
- 4) A
- 5)  $+6^\circ$

#### Review 2- Answers

- 1) addition; multiplication
- 2) Column 1: +, -, sign of larger absolute value, sign of larger absolute value  
Column 2: +, +, -, -
- 3) a) 16                      b) -300                      c) -15                      d) 2
- 4) D
- 5)  $-3^\circ$

#### Review 3- Answers

- 1) addition; opposite; multiplication; reciprocal
- 2) Column 1: +, -, sign of larger absolute value, sign of larger absolute value  
Column 2: +, +, -, -
- 3) a) -17                      b) -4                      c) 190                      d) 16
- 4) 33 animals
- 5) +20,602 ft

#### Review 4- Answers

- 1) addition; multiplication
- 2) addition; opposite; multiplication; reciprocal
- 3) Column 1: +, -, sign of larger absolute value, sign of larger absolute value  
Column 2: +, +, -, -
- 4) a) -22                      b) -15                      c) -84                      d) -18
- 5) 36 animals

#### Quiz - Answers

- 1) addition; multiplication; addition; opposite; multiplication; reciprocal
- 2) Column 1: +, -, sign of larger absolute value, sign of larger absolute value  
Column 2: +, +, -, -
- 3) a) -7                      b) -100                      c) -8                      d) 4
- 4) 35 animals
- 5) -1522 ft