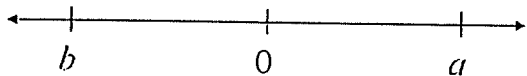# Day 1

1. **7.EE.1.1**
   Which expressions below are equivalent to $2(2x + 1)$?
   Select all that apply.
   - ☐ A. $4x + 2$
   - ☐ B. $2(1 + 2x)$
   - ☐ C. $2(2x) + 1$
   - ☐ D. $2x + 1 + 2x + 1$
   - ☐ E. $x + x + x + x + 1 + 1$

2. **7.NS.1.1**
   On the number line below, the numbers a and b are the same distance from 0. What is $a + b$? Explain how you know.

3. **7.NS.1.2**
   Place a check in the box next to **all** the expressions given below that are equivalent to -7.
   - ☐ $-\dfrac{14}{2} \times \dfrac{7}{7}$
   - ☐ $7 \times -1 \times -1 \times -1$
   - ☐ $-4 \times \dfrac{7}{4}$
   - ☐ -7×-1
   - ☐ 7^{-1}

4. **7.NS.1.3**
   Jason's checking account balance was $345. Jason withdrew $160 three times. What is his current balance?
   - A. -$480
   - B. -$135
   - C. $135
   - D. $185

5. **7.EE.1.1**
   Mario has read two less than four times the number of books Tonya has read. What factored expression represents the number of books, x, Mario has read?
   - A. $4x - 2$
   - B. $2(x - 1)$
   - C. $4(x - 2)$
   - D. $2(2x - 1)$

Day 2

1. **7.EE.1.1**

   In the following equation, *a* and *b* are both integers.

   $$a(3x - 8) = b - 18x$$

   What is the value of *a*? ☐

   What is the value of *b*? ☐

2. **7.NS.1.1**

   Mount Ojos del Salado is the highest mountain in Chile, with a peak at about 6900 meters above sea level.

   The Atacama Trench, just off the coast of Chile, is about 8100 meters below sea level (at its lowest point).

   What is the difference in elevations between Mount Ojos del Salado and the Atacama Trench?

3. **7.NS.1.2**

   Evaluate the following expression.

   $$2 + (3 - 2 \times 2) \times 1$$

4. **7.NS.1.3**
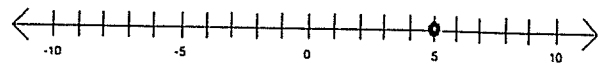
   The table shows prices for a local bowling alley.

   BOWLING ALLEY PRICES

Item	Price
Shoe rental	$2.75
One game of bowling	$2.50
Small soda	$0.95
Large soda	$1.50
Nachos	$1.75

   Valerie rented shoes, bowled 4 games, and bought 2 orders of nachos. She used a coupon for half off the price of food. What was the total cost, before tax, of Valerie's trip to the bowling alley?

5. **7.NS.1.1**

   The value of 5 is plotted on the number line below. Plot another point on the number line that is 10 units away from 5.

Day 3

1. **7.EE.1.1**
   Shannon says the two expressions below are equivalent. Is she correct? Explain why or why not?
   $$2(3a - 2) + 4a \text{ and } 10a - 2$$

2. **7.NS.1.1**
   Mount Ojos del Salado is the highest mountain in Chile, with a peak at about 6900 meters above sea level.
   The Atacama Trench, just off the coast of Chile, is about 8100 meters below sea level (at its lowest point).

   Is the elevation halfway between the peak of Mount Ojos del Salado and the Atacama Trench above or below sea level?

3. **7.NS.1.2**
   What is the value of the expression?
   $$9 \times 3 - 9 \times \frac{20}{-5}$$

4. **7.NS.1.3**
   A diver is swimming 30 meters below sea level. Another diver is taking a break on a boat platform that is 5 meters above sea level directly above him. How far apart are the two divers?
   - A. 5 meters
   - B. 25 meters
   - C. 35 meters
   - D. 40 meters

5. **7.NS.1.2**
   Express the following fraction as a decimal.
   $$\frac{11}{25}$$

Day 4

1. **7.EE.1.1**
   Which of the given pairs of expressions are equivalent? Select all that apply.
   - ☐ **A.** $3z + 2z$ and $5z$
   - ☐ **B.** $(8x - 8x) - y$ and 0
   - ☐ **C.** $9.1 + 4.5a - 2.5a$ and $11.1a$
   - ☐ **D.** $-7y(3) - 3$ and 0
   - ☐ **E.** $y - 6(3)$ and $y - 18$

2. **7.NS.1.1**
   What is the value of the expression shown below?

   $8 - (-5.5)$

   A. -13.5
   B. -2.5
   C. 2.5
   D. 13.5

3. **7.NS.1.2**
   What is the value of $\dfrac{-33}{9+2}$?

4. **7.NS.1.3**
   The change in the average price of a gallon of milk from 2011 to 2013 is shown in the table below.

Year	Price Change (in dollars)
2011	-0.57
2012	+0.25
2013	-0.08

   At the end of 2010, the price of a gallon of milk was $3.47.
   What was the price, in dollars, of a gallon of milk at the end of 2013?

5. **7.NS.1.3**
   Linda is training for a half marathon. She ran $3\frac{3}{4}$ miles Monday, 3 miles Tuesday, and $2\frac{1}{2}$ miles Wednesday. How many miles did she run in those three days?
   - **A.** $8\frac{1}{4}$ miles
   - **B.** $9\frac{1}{4}$ miles
   - **C.** $9\frac{1}{3}$ miles
   - **D.** $9\frac{1}{2}$ miles

Day 5

1. **7.EE.1.1**
   Which expressions are equivalent to
   $6xy + 9xy - 18y$? Select all that apply.
   - ☐ A. $3(2xy + 3xy - 6y)$
   - ☐ B. $3x(2y + 3y - 6)$
   - ☐ C. $3y(2x + 3x - 6)$
   - ☐ D. $xy(5 - 6y)$
   - ☐ E. $3y(5x - 6)$
   - ☐ F. $y(15x - 18)$

2. **7.NS.1.1**
   Omari and Daisy live on the same street as their school. The street runs from east to west.

   Omari lives $5\frac{1}{2}$ blocks west of the school.

   Daisy lives $4\frac{1}{4}$ east of the school. How many blocks apart are Omari's house and Daisy's house?

3. **7.NS.1.2**
   The table below shows Greg's scores at a state golf tournament. What is Greg's average score for the five rounds?

Round	1	2	3	4	5
Score	3	1	-3	-2	-4

   A. -4
   B. -3
   C. -2
   D. -1

4. **7.NS.1.3**
   A puppy gained 6 pounds during the month of September, which has 30 days. On average, how many pounds did the puppy gain each day? Select all that apply.
   - ☐ A. $\frac{1}{5}$ lb
   - ☐ B. $\frac{2}{9}$ lb
   - ☐ C. 0.2 lb
   - ☐ D. 0.5 lb
   - ☐ E. 5 lb

5. **7.EE.1.1**
   Which expression represents the sum of
   $(2x - 5y)$ and $(x + y)$?
   A. $3x - 4y$
   B. $3x - 6y$
   C. $x - 4y$
   D. $x - 6y$