

# **Alliance for College-Ready Public Schools**

## **2017–2018 Alliance Grade 7 Open Up PRACTICE Interim Assessment 1**



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**Directions:** Answer all the questions on the test. When you are finished with a question, go on to the next question.

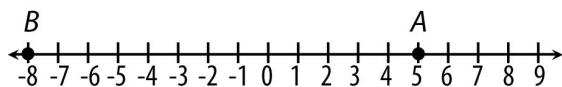
**1** Several situations in which opposite quantities are combined are given below.

Drag and drop into the box those situations for which the opposite quantities combine to make 0.

*This question must be answered online.*

Read questions 2 through 8 and select the best answer.

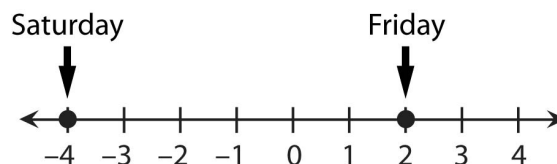
**2** In a tug-of-war contest, the green team pulled the center rope marker to point *A*, then the yellow team recovered and pulled the center marker to point *B* to win the contest.



Which statement describes how to find the distance between these points?

- A. Subtract 5 from  $-8$  to get  $-13$ .
- B. Add  $-5$  and  $8$  to get  $3$ .
- C. Add  $5$  and  $-8$  to get  $-3$ .
- D. Add  $8$  and  $5$  to get  $13$ .

**3** The number line shows the change in the level of water in a fish tank above and below the recommended level represented by 0.



Which expression shows how to find the distance between the water levels on Friday and Saturday?

- A.  $|2 - 4|$
- B.  $|-4 - (-2)|$
- C.  $|-4| - 2$
- D.  $|2 - (-4)|$

**4** Jalal notices the temperature outside at sunrise is  $-6^{\circ}\text{F}$ . An hour later, the temperature is  $12^{\circ}\text{F}$ . Which expression represents the change in temperature?

- A.  $12 - (-6) = 6$
- B.  $-6 - (12) = -18$
- C.  $-6 - (12) = -6$
- D.  $12 - (-6) = 18$

**5** Adam recorded the change of the price of gas over 5 months.

Month	Price Change
September	+1.20
October	-0.08
November	+0.74
December	+1.43
January	-2.11

What is the total change in gas price over 5 months?

- A. \$1.18 increase
- B. \$2.19 decrease
- C. \$3.37 increase
- D. \$5.56 Increase

**6** The table shows the weights of four cats.

**Cat Weights**

Cat	Weight (pounds)
Rex	10.8
Tiny	$12\frac{3}{5}$
Penelope	8.4
Smudge	$9\frac{1}{5}$

What is the total weight of the cats?

- A. 40 pounds
- B. 40.2 pounds
- C. 41 pounds
- D. 41.4 pounds

**7** Mrs. Martinez has a bowl of candy that she passes out to trick-or-treaters. A group of 5 children dressed in costumes comes to her door. She gives each child 3 pieces of candy from her bowl. Which expression shows the net result of the amount of candy in her bowl?

- A.  $(-5)(-3)$
- B.  $(5 - (-3))$
- C.  $(5)(3)$
- D.  $(5)(-3)$

**8** Look at the expression.

$$-6\left(\frac{3}{8} + \frac{3}{4}\right)$$

Which of the following expressions is equivalent to the one shown?

- A.  $-\frac{9}{4} + \frac{3}{4}$
- B.  $-\frac{9}{4} - \frac{3}{4}$
- C.  $-\frac{9}{4} - \frac{9}{2}$
- D.  $-\frac{9}{4} + \frac{9}{2}$

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**9** Which fractions have the same value as  $-\frac{1}{4}$  ?

Drag and drop each fraction into the correct column that classifies it as either equal to or not equal to  $-\frac{1}{4}$  .

*This question must be answered online.*

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Read questions 10 through 18 and select the best answer.

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**10** The greatest ocean depth is at a depth of  $-35,836$  feet ( $35,836$  feet below sea level). An unmanned research submarine dives from sea level to that depth in  $17$  equal steps. At what depth is the submarine located after the first step?

- A.  $-35,853$  feet
- B.  $-2,108$  feet
- C.  $2,108$  feet
- D.  $33,728$  feet

**11** Jeremy buys a value pack of cheese crackers that contains  $42\frac{1}{2}$  ounces of crackers. He divides this into servings of  $1\frac{1}{4}$  ounces each. What is the total number of servings Jeremy can make from the value pack?

- A. 34 servings
- B. 44 servings
- C. 53 servings
- D. 85 servings

**12** Alana is converting the fraction  $\frac{6}{11}$  to a decimal. She first divides  $6$  by  $11$ , as shown below.

$$\begin{array}{r} .5 \\ 11 \overline{)6.0} \\ \underline{-55} \\ 5 \end{array}$$

What is Alana's next step?

- A. Stop dividing because the  $5$  repeats.
- B. Add a  $0$  to the remainder  $5$ , then find the number of times  $50$  can be divided by  $11$ .
- C. Add a  $0$  to the quotient, then find the remainder.
- D. Stop dividing because a zero has already been added.

**13** A radio announcer said that  $\frac{5}{8}$  of the population in a certain city have listened to a radio station at some time. What decimal represents this fraction?

- A.  $0.58$
- B.  $1.6$
- C.  $0.625$
- D.  $0.62$

**14** Greg's mother fills the tank of her car with gas on Saturday morning. She uses  $\frac{1}{4}$  of the tank on Saturday and another  $\frac{2}{5}$  of the tank on Sunday. How much gas remains in the gas tank?

- A.  $\frac{3}{20}$  of a tank
- B.  $\frac{7}{20}$  of a tank
- C.  $\frac{9}{20}$  of a tank
- D.  $\frac{13}{20}$  of a tank

**15** Linda earned \$5.25 and spent \$3.75 one week. The next week she earned \$4.40 and spent \$2.25. How much money did Linda have left after these 2 weeks?

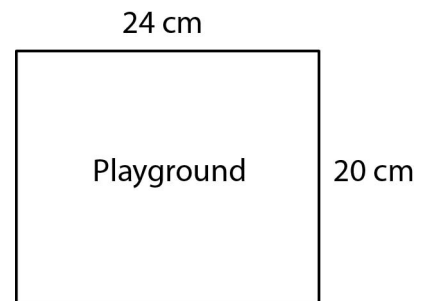
- A. \$6.00
- B. \$3.65
- C. \$15.65
- D. \$9.65

**16** What is the value of the expression below?

$$\frac{1}{3} + 2\left(\frac{1}{6} - \frac{2}{3}\right) \div \frac{3}{4}$$

- A. -1
- B.  $-\frac{5}{12}$
- C. 0
- D.  $\frac{5}{3}$

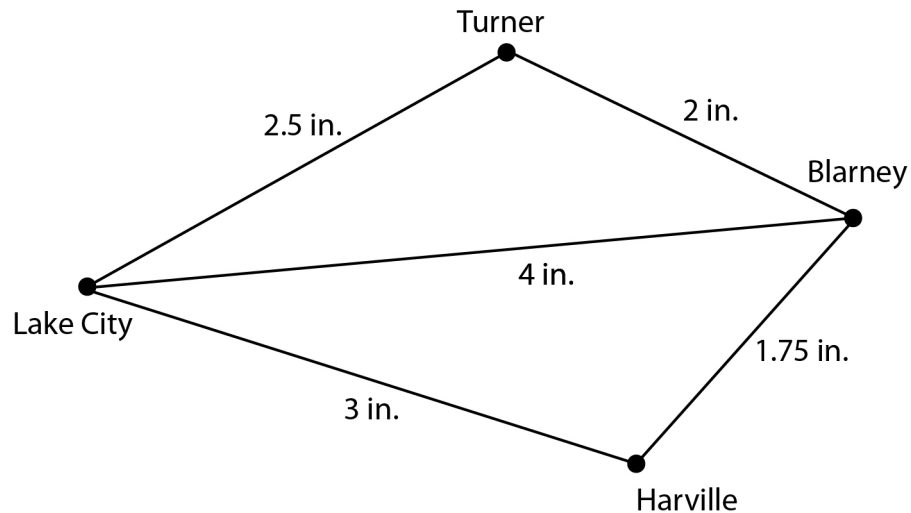
**17** Sara made a scale drawing of the playground.



If 2 cm = 5 ft, what is the AREA of the playground?

- A. 480 ft<sup>2</sup>
- B. 600 ft<sup>2</sup>
- C. 3,000 ft<sup>2</sup>
- D. 12,000 ft<sup>2</sup>

**18** The map shows the roads from Lake City to three smaller towns.



**Liza drove from Lake City to Turner, then to Blarney, then straight back to Lake City. She drove a total of 34 miles. What is the scale of the map?**

- A.** 1 inch = 4 miles
- B.** 1 inch = 8.5 miles
- C.** 1 inch = 25.5 miles
- D.** 1 inch = 289 miles

