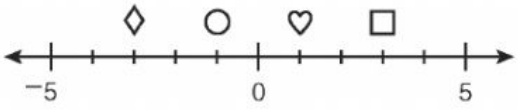
PA review Integers

Name: _____ **Date:** _____

1. Which symbol is located at −3 on the number line below? 1. _____

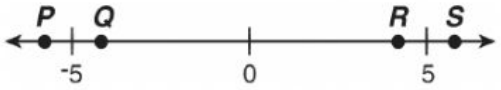


A.  B.  C.  D. 

2. What is the coordinate of point A? 2. _____

A. −3 B. −1 C. 1 D. 4

3. Look at the number line. 3. _____



What point shows the location of −6 on the number line?

A. Point *P* B. Point *Q* C. Point *R* D. Point *S*

4. Which set below shows the integers in order from *least to greatest*? 4. _____

A. {−2, −3, 2, 3} B. {2, 3, −3, −2}

C. {−3, −2, 2, 3} D. {3, 2, −2, −3}

5. The change, in yards, in a football team's position on the field for each of their last four plays is shown below. 5. _____

−4, 7, −7, 0

Which list correctly compares the changes, in yards, in the football team's position on the field?

A. $-7 < -4 < 0 < 7$ B. $-4 < -7 < 0 < 7$

C. $0 < -7 < -4 < 7$ D. $0 < -4 < -7 < 7$

6. The table below shows the record-low temperatures, in degrees Fahrenheit (F°), for five states. 6. _____

Record-Low Temperatures

State	Temperature (°F)
Arkansas	−29
Louisiana	−16
Mississippi	−19
Oklahoma	−31
Texas	−23

Which inequality correctly compares two of the record-low temperatures from the table?

A. $-16 < -19$ B. $-23 < -29$ C. $-29 < -31$ D. $-31 < -23$

7. The table shows the temperature on four winter mornings in the Berkshire Mountains. 7. _____

Winter Temperatures in the Berkshire Mountains

Date	Temperature at 6:00 am
Thursday	−9°C
Friday	−10°C
Saturday	−18°C
Sunday	−12°C

Which day had the warmest morning?

A. Thursday B. Friday C. Saturday D. Sunday

8. The table below shows the lowest recorded temperature for each of four cities. 8. _____

Lowest Recorded Temperatures

City	Temperature (in degrees Fahrenheit)
Detroit, Michigan	−21
San Juan, Puerto Rico	60
Fairbanks, Alaska	−62
Seattle, Washington	9

Which of the following shows these numbers in order from least to greatest?

A. −62, −21, 9, 60 B. 9, −21, 60, −62

C. −62, 60, −21, 9 D. −21, −62, 9, 60

9. The lowest elevations for five states are recorded in the table below. 9. _____

Lowest Elevations

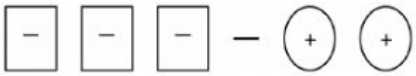
State	Arkansas	California	Louisiana	Massachusetts	Texas
Lowest Elevation (feet above sea level)	55	−282	−8	0	−2

Which of the following lists the numbers in the table in order from least to greatest?

A. −282, −8, −2, 0, 55 B. −282, 55, −8, −2, 0

C. 0, −2, −8, 55, −282 D. 0, 55, −2, −8, −282

10. Which expression matches the model shown? 10. _____



A. −2 + 3 B. 3 + 2 C. −3 − 2 D. 2 − 3

11. Which expression matches the model shown? 11. _____

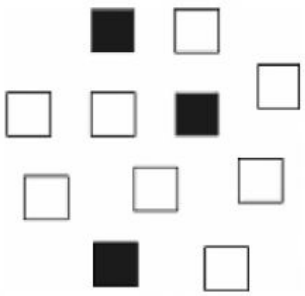
A. 4 + (−3) B. −4 + (−3 C. −3 − 4 D. 3 − (−4)

12. If □ = +1 and ■ = −1 which of the following does *not* equal −1? 12. _____

A. □ + ■ + ■ + ■ + □ B. ■ + □ + ■ + □ + ■

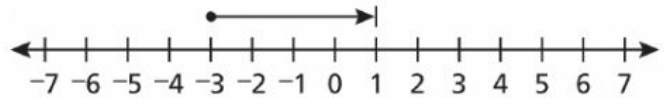
C. □ + ■ − □ D. □ − (■ + ■)

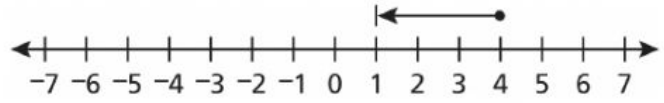
13. Suppose ■ = −1 and □ = 1. What is the value of the following set? 13. _____

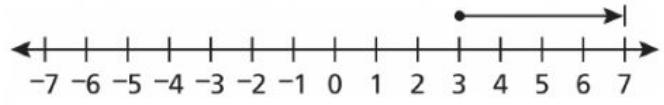


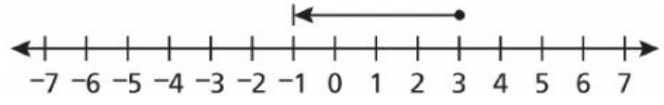
A. −3 B. +5 C. +8 D. +11

14. Which of the following number lines correctly models the addition of $(-3) + 4$? 14. _____

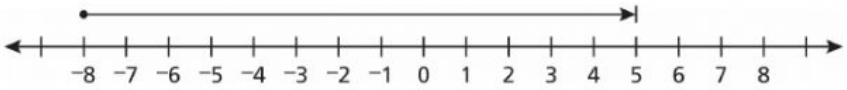
A.


B.


C.


D.


15. The following figure represents an equation that uses integers. 15. _____

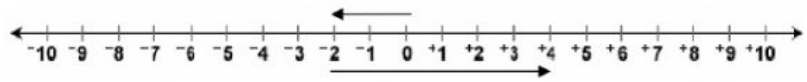


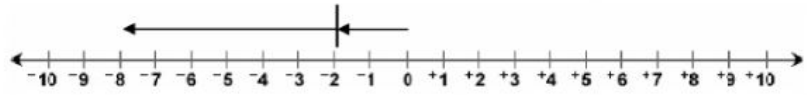
Which equation does the figure represent?

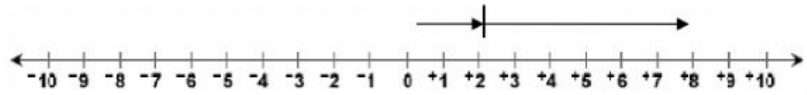
A. $-8 + 13 = 5$ B. $-8 - 13 = 5$ C. $-8 + 5 = 13$ D. $-8 - 5 = 13$

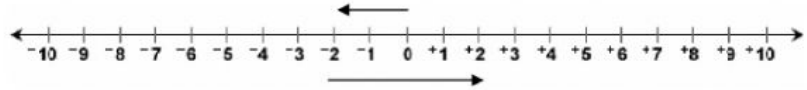
16. Which of the following number lines represents the difference between the pair of integers shown below? 16. _____

$$(-2) - (-6) = \ ?$$

A.


B.


C.


D.


17. The temperature on Monday was -23°F. The temperature on Tuesday was 18° higher. What was the temperature on Tuesday? 17. _____

A. -41°F B. -5°F C. 5°F D. 41°F

18. A dolphin was swimming at 20 feet below sea level. Then it dove to 45 feet below its original position. Which integer represents the depth of the dolphin's dive? 18. _____

A. −45 feet B. −20 feet C. 20 feet D. 45 feet

19. The temperature in Flagstaff was −5°C when Sandy went to bed. The temperature dropped 20°C during the night. Which integer represents the change in temperature? 19. _____

A. −25°C B. −20°C C. 20°C D. 25°C

20. On a winter Monday in Prescott, the temperature at 8 a.m. was −8°F. At 1 p.m. it was 27°F. By how many degrees did the temperature change from morning to afternoon? 20. _____

A. −35° B. −19° C. 19° D. 35°

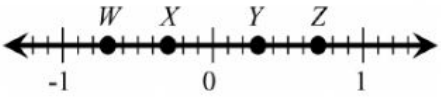
21. The temperature on a mountain peak was 7 degrees Fahrenheit (°F) at 6:00 p.m. By 8:00 p.m., the temperature had dropped to 0°F. If the temperature continued to drop at about the same rate, which is the *best* estimate of the temperature at 11:00 p.m.? 21. _____

A. −20°F B. −14°F C. −10°F D. −9°F

22. A group of hikers climbed from Salt Flats (elevation −55 feet) to Talon Bluff (elevation 620 feet). What is the difference in elevation between Talon Bluff and Salt Flats? 22. _____

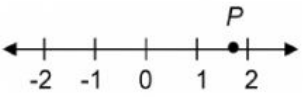
A. 565 feet B. 575 feet C. 665 feet D. 675 feet

23. Which point is located closest to $-\frac{7}{10}$ on the number line below? 23. _____



A. *W* B. *X* C. *Y* D. *Z*

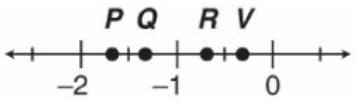
24. Look at the number line. 24. _____



Which value does *P best* represent?

A. $1\frac{1}{3}$ B. $1\frac{1}{2}$ C. $1\frac{2}{3}$ D. $2\frac{1}{3}$

25. Which point *best* represents $-1\frac{3}{8}$ on the number line below? 25. _____



A. *P* B. *Q* C. *R* D. *V*

26. A at duck is resting on the surface of a lake, an altitude of 0 feet above sea level. It dives to −5 feet to eat. Then it returns to the surface. Which of these occurred between the time the duck ate and the time it returned to the surface? 26. _____

A. The duck's altitude increased by 5 feet.

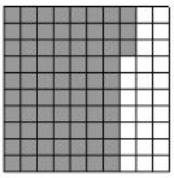
B. The duck's altitude decreased by 5 feet.

C. The duck's altitude increased by 10 feet.

D. The duck's altitude remained the same.

27. In a game show, contestants gain or lose points by answering questions. Jacob began with 27 points, lost 53, and gained 15. What was his final score? 27. _____

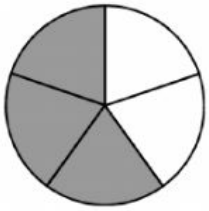
A. −41 B. −11 C. 41 D. 95

28.  28. _____

Which percent names the amount of the grid that is shaded?

A. 6.3% B. 7.3% C. 63% D. 73%

29. ***About*** what percent of this figure is shaded? 29. _____



A. 5% B. 25% C. 60%

30. What is $\frac{2}{3}$ as a decimal number? 30. _____

A. .33333... B. .22222... C. .66666... D. .2323...

31. 0.48 is what equivalent to what fraction? 31. _____

A. $\frac{12}{25}$ B. $4\frac{4}{5}$ C. $\frac{6}{125}$ D. $\frac{2}{5}$

32. $\frac{4}{100}$ is what percent? 32. _____

A. 400% B. 40% C. 4% D. .4%

33. .89 is what percent? 33. _____

A. .89% B. 8.9% C. 89% D. 890%

34. Convert the fraction or decimal to its equivalent percent. 34. _____

$\frac{18}{40}$ =

35. Convert the fraction or decimal to its equivalent percent. 35. _____

.007 =

36. Convert the fraction or decimal to its equivalent percent. 36. _____

3.7 =

37. Convert the fraction or decimal to its equivalent percent. 37. _____

$\frac{12}{12}$ =

38. Sheila needs $3\frac{3}{4}$ cups flour to make cookies. Which fraction is equivalent to $3\frac{3}{4}$ cups of flour? 38. _____

A. $\frac{9}{4}$ B. $\frac{10}{4}$ C. $\frac{13}{4}$ D. $\frac{15}{4}$

39. **The table below shows the number of people who saw a movie at the Ritz Theater last week. Use this table to answer the following question.** 39. _____

RITZ THEATER ATTENDANCE

Day	People
Sunday	294
Monday	200
Tuesday	187
Wednesday	218
Thursday	245
Friday	300
Saturday	326

The movie theater has 400 seats. How much of the theater was full on Friday?

A. about 50%
B. between 50% and 75%
C. 75%
D. 100%

40. The table below shows the number of points that each player on a basketball team scored in his last game. 40. _____

Points Scored

Player	Number of Points Scored
Alex	9
Doug	12
Nick	15
Keith	5
Sam	4

What percent of the total number of points did Alex score?

A. 9%
B. 20%
C. 25%
D. 45%