Review 3B: Numbers

1.

Which of the lettered points is graphed at −3 on the number line above?

A *A*
B *B*
C *C*
D *D*
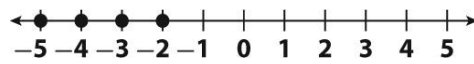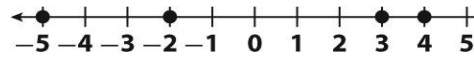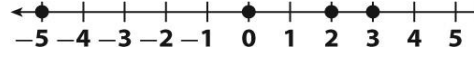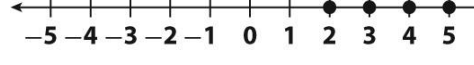
2. Ming prepared three chemical solutions with temperatures −5°C, −4°C, and −3°C. Which of the following correctly compares the three temperatures?

A $-5 < -4 < -3$
B $-5 < -3 < -4$
C $-3 < -4 < -5$
D $-3 < -5 < -4$

3. Which of the following shows an integer and its opposite?

A 3, −3
B 3, $\frac{1}{3}$
C −3, $-\frac{1}{3}$
D $-\frac{1}{3}, +\frac{1}{3}$

4. Which number has the same absolute value as −2?

A $-\frac{1}{2}$
B 0
C $\frac{1}{2}$
D 2

5. Jenni wrote a rational number that is positive. Which of the following is **not** a possible number that she wrote?

A 0
B 1
C $\frac{7}{8}$
D $5\frac{1}{4}$

6. Daria placed the numbers $-\frac{4}{7}$, 0.58, −0.6 and $\frac{5}{8}$ on the number line. Which of the numbers is furthest from zero?

A −0.6
B $-\frac{4}{7}$
C 0.58
D $\frac{5}{8}$

7.
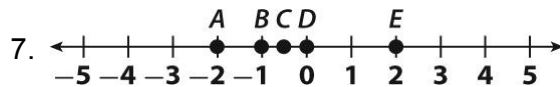
Which of the following points graphed above are opposites of each other?

A *A* and *B*
B *B* and *D*
C *C* and *E*
D *A* and *E*

8. Which of the following numbers is furthest from 0 on the number line?

A −3
B −2
C 2
D 4

9. Which number line shows the values of $|-2|$, $|3|$, $|4|$, and $|-5|$?

A

B

C

D

10. What is the LCM of 15 and 20?

A 5
B 30
C 40
D 60

11. What is the sum of any rational number and its opposite? Explain.

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12. **Tommy's Points**

Day	Points
Monday	−7.21
Tuesday	7.22
Wednesday	$7\frac{1}{5}$
Thursday	$7\frac{3}{8}$

Tommy is playing a game in which he can score points each day. His scores for four days are shown in the table above. On which day did Tommy score the least points?

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13. If the numbers $2\frac{11}{12}$ and $3\frac{7}{9}$ are written in the form $\frac{a}{b}$, which will have the greater numerator?

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14. What is an example of a situation in which it is appropriate to use a rational number but **not** an integer?

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15. Carson claims that the opposite of any integer x is always a negative number. Is he correct? Explain why or why not.

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16. **Daily Temperatures in Calgary**

Day	Temperature
Monday	−8.1°C
Tuesday	−7.8°C
Wednesday	−8.05°C
Thursday	−8.18°C

The table shows the daily temperatures for a four-day period in Calgary.

List the temperatures in order from greatest to least.

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17. The absolute value of a number is added to the original number. Kayla says the sum is always equal to 0. Is she correct? Explain why or why not.

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18. List the factors of 12 and 20. Identify the GCF.

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