Name:_____ Class/Period:_____

Assignment: Honors HW # 15 due 2/4 Teacher: Fletcher

1 Which expression has the same value as $5\frac{1}{2} - 8\frac{2}{3}$?

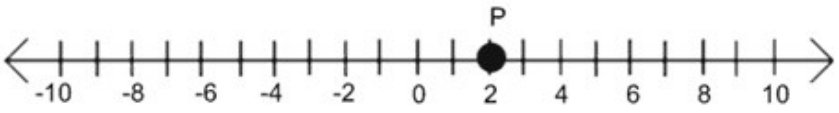
1 $(-8\frac{2}{3}) + 5\frac{1}{2}$

2 $8\frac{2}{3} - 5\frac{1}{2}$

3 $-5\frac{1}{2} - 8\frac{2}{3}$

4 $8\frac{2}{3} - (-5\frac{1}{2})$

2 Point *P* is shown on the number line below.



The distance between point *Q* and point *P* is $5\frac{1}{2}$ units. Which number could represent point *Q*?

1 $10\frac{1}{2}$

2 $-3\frac{1}{2}$

3 $-5\frac{1}{2}$

4 $-8\frac{1}{2}$

3 The inequality below compares two rational numbers.

$$\frac{-6}{17} < \frac{-4}{15}$$

If the two numbers were plotted as values on the horizontal number line, which statement would be true?

1 Both numbers lie to the right of 0, and $-\frac{6}{17}$ lies to the left of $-\frac{4}{15}$.

2 Both numbers lie to the left of 0, and $-\frac{6}{17}$ lies to the left of $-\frac{4}{15}$.

3 Both numbers lie to the right of 0, and $-\frac{6}{17}$ lies to the right of $-\frac{4}{15}$.

4 Both numbers lie to the left of 0, and $-\frac{6}{17}$ lies to the right of $-\frac{4}{15}$.

4 Taylor does jumping jacks at a rate of 50 jumping jacks per minute. If Taylor completes her jumping jacks at a constant rate and has done 150 jumping jacks, which method can be used to determine how many minutes Taylor has been doing jumping jacks for?

1 add 50 and 150
2 subtract 50 from 150
3 multiply 50 and 150
4 divide 150 by 50

5 Melanie runs around the track at a rate of 1 mile every 8 minutes. If her running rate remains the same, which method could be used to determine the number of minutes for her to run 5 miles?

1 add 8 and 5
2 subtract 5 from 8
3 multiply 8 and 5
4 divide 8 by 5

6 Mindy is reading a book that is 430 pages. If she wants to read 30% of her book tonight, which equation can be used to determine how many pages Mindy needs to read, x?

1 $\frac{x}{430}=\frac{30}{100}$

2 $\frac{430}{x}=\frac{30}{100}$

3 $\frac{430}{100}=\frac{30}{x}$

4 $\frac{30}{x}=\frac{430}{100}$

7 The relationship between the number of pencils and the number of pens in Sophie's pencil case can be represented using the ratio 6:10. Which of the following ratios is **not** equivalent to this ratio?

1 3:5
2 9:15
3 12:20
4 24:30

8 The ratio of girls to boys in Mr. Smith's class is 7:13. The table below contains some examples of equivalent ratios. Find the value of the missing number, x, in the table below.

Mr. Smith's Class

Girls	Boys
14	26
28	52
42	x

1 91
2 78
3 68
4 65

9 The expression $8 + (-3)$ is equivalent to

1 $3 + 8$
2 $-8 + 3$
3 $8 - (-3)$
4 $8 - 3$

10 Which statement below is true?

1 The absolute value of 3 is larger than the absolute value of -3.75
2 The absolute value of 3 is smaller than the absolute value of -3.75
3 The absolute value of 3 is equal to the absolute value of -3.75
4 The absolute value of 3 and -3.75 cannot be determined.

11 The following problem was assigned last night for homework:

List the following rational numbers in order from least to greatest. Include inequality symbols.

-2.7, 0.27, -2.09, $-\frac{7}{2}$

Which student completed the problem correctly?

1 Student A: $0.27 < -\frac{7}{2} < -2.7 < -2.09$

2 Student B: $-\frac{7}{2} < -2.09 > -2.7 > 0.27$

3 Student C: $-\frac{7}{2} < -2.7 < -2.09 < 0.27$

4 Student D: $0.27 > -2.09 > -2.7 > -\frac{7}{2}$

12 It takes a snail 500 hours to travel 15 miles. At this rate, how many hours will it takes the snail to travel 6 miles?

1 0.18
2 5.56
3 150
4 200