THURSDAY 4/26/18 7th GRADE MATH HOMEWORK

18. In the equations below, x is the independent variable, and y is the dependent variable.

Equation Number	Equation
1	$4y = 3x$
2	$8y = 5x$
3	$8y = 6x$
4	$5y = 8x$

Which two equations have the same constant of proportionality?

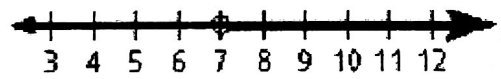
A. 2 and 4

B. 2 and 3

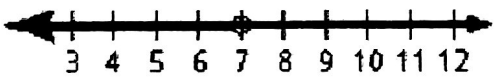
C. 1 and 3

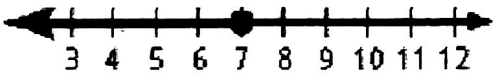
D. 1 and 2

19. Kathy is packing her suitcase for a trip. She wants the total weight of the suitcase to be no more than 50 pounds. The total weight so far is $37\frac{1}{2}$ pounds. She wants to add books that weigh $1\frac{3}{4}$ pounds each. Which inequality shows the number of books she can add to her suitcase?

A. 

B. 

C. 

D. 

20. Which expression has the same value as $-\frac{3}{2}-\left(2-\frac{3}{8}\right)+\frac{3}{2}$?

A. $\left(\frac{3}{2}-\frac{3}{2}\right)-2+\frac{3}{8}$

B. $\left(\frac{3}{2}-\frac{3}{2}\right)+\left(2+\frac{3}{8}\right)$

C. $-\left(\frac{3}{2}+\frac{3}{2}\right)-\left(2-\frac{3}{8}\right)$

D. $\left(-\frac{3}{2}+\frac{3}{2}\right)+\left(2+\frac{3}{8}\right)$

21. Greta learned that about 10% of people are left-handed. She ran 10 different simulations using random digits to find the probability that there is a left-handed person in a group of 5 randomly selected people. In the table below, 0 represents a left-handed person and 1 through 9 represent a right-handed person. Each row represents one simulation of 5 people.

3	1	4	9	6
5	6	9	6	7
5	3	2	6	8
1	4	4	2	8
9	4	4	2	6
6	8	7	4	9
6	3	4	8	8
2	7	4	4	2
0	3	6	1	6
0	5	2	0	9

Based on Greta's simulations, what is the probability that in a group of 5 people, at least 1 person will be left-handed?

A. 6%

B. 20%

C. 30%

D. 60%

22. Antwon gathered data on the ages of 15 parents of students in his school. He recorded the data in the table below.

36	32	51	31	30
42	56	32	43	54
26	43	38	43	28

Which is the ***best*** prediction that Antwon can make about the ages of the parents at his school?

A. There are not any parents older than 54.

B. Most parents are about 43 years old.

C. The mean age is about 39.

D. At least half the parents are over 45 years old.

23. Daphne has 3 days to drive 932.4 miles. She wants to have completed about 75% of the drive by the start of day 3. Which of the following is the ***closest*** to the distance she should drive on each of the first two days?

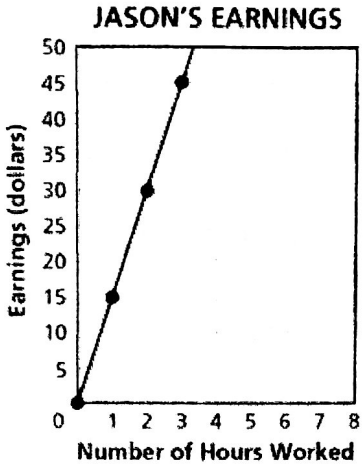
A. 230 mi

B. 310 mi

C. 350 mi

D. 700 mi

24. The graph below shows Jason's earnings based on the number of hours he works.



Which point on the graph represents Jason's hourly pay rate?

A. (0, 0)

B. (1, 15)

C. (2, 30)

D. (3, 45)

25. What is the value of $\frac{-3}{4} - \left(\frac{3}{-8}\right)$?

A. $-1\frac{1}{8}$

B. $-\frac{3}{8}$

C. $\frac{3}{8}$

D. $1\frac{1}{8}$

26. What is the value of $-\frac{1}{6} + \frac{2}{3}\left(9 - \frac{3}{4}\right) - \frac{1}{2}$?

A. $\frac{62}{12}$

B. $\frac{58}{12}$

C. $\frac{55}{12}$

D. $\frac{3}{12}$