

Class Name : **2018 Period 1**

Instructor Name : **Charleston**

Student Name : _____

Instructor Note :

1. If it takes 6.3 pounds of seed to plant one acre of grass, how many acres can be planted with 6.93 pounds of seed?

2. Solve for n .

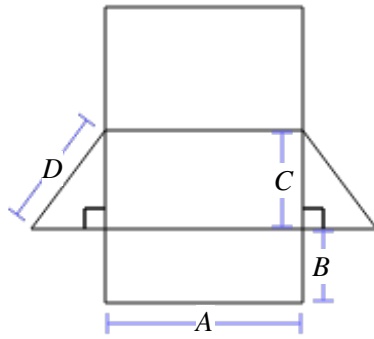
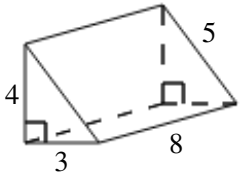
$$2 = 10n$$

Simplify your answer as much as possible.

3. Multiply.

$$4y(3)$$

4. A right triangular prism and its net are shown below.
 (All lengths are in feet.)



- (a) Find the following side lengths for the net.

$$A = \underline{\hspace{1cm}} \text{ ft}$$

$$B = \underline{\hspace{1cm}} \text{ ft}$$

$$C = \underline{\hspace{1cm}} \text{ ft}$$

$$D = \underline{\hspace{1cm}} \text{ ft}$$

- (b) Use the net to find the surface area of the prism.

$$\underline{\hspace{1cm}} \text{ ft}^2$$

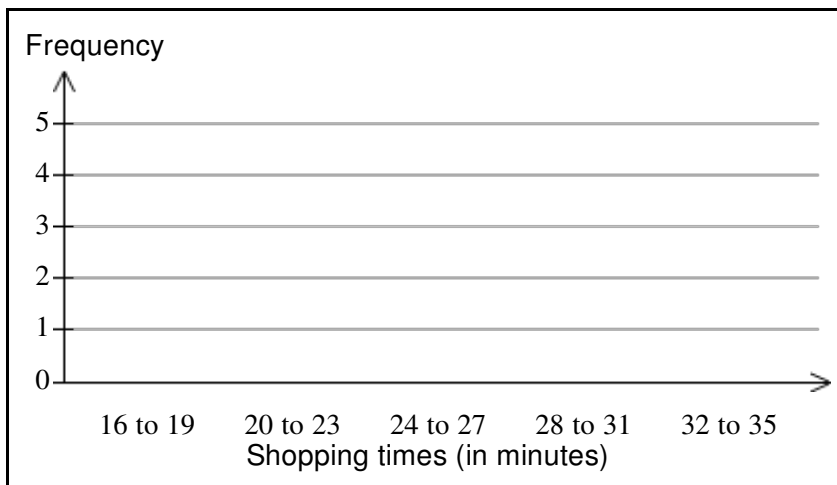
5. Here are the shopping times (in minutes) for each of sixteen shoppers at a local grocery store.

Shopping times (in minutes)							
27	29	23	16	32	18	26	18
35	28	19	30	20	27	33	25

(a) Complete the grouped frequency distribution for the data. (Note that the class width is 4.)

Shopping times (in minutes)	Frequency
16 to 19	_____
20 to 23	_____
24 to 27	_____
28 to 31	_____
32 to 35	_____

(b) Construct a histogram for the data.



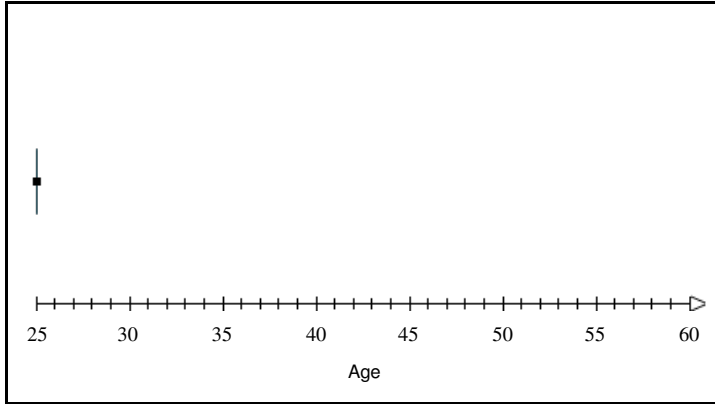
6.

The following are the ages of 17 music teachers in a school district.

26, 28, 31, 32, 34, 35, 37, 42, 42, 44, 45, 47, 54, 54, 56, 57, 58.

Notice that the ages are ordered from least to greatest.

Make a box-and-whisker plot for the data.



7. The 6 students in Mr. James' class were asked how many minutes it takes them to get to school in the morning. Here is what they answered:

11, 16, 3, 7, 12, 15.

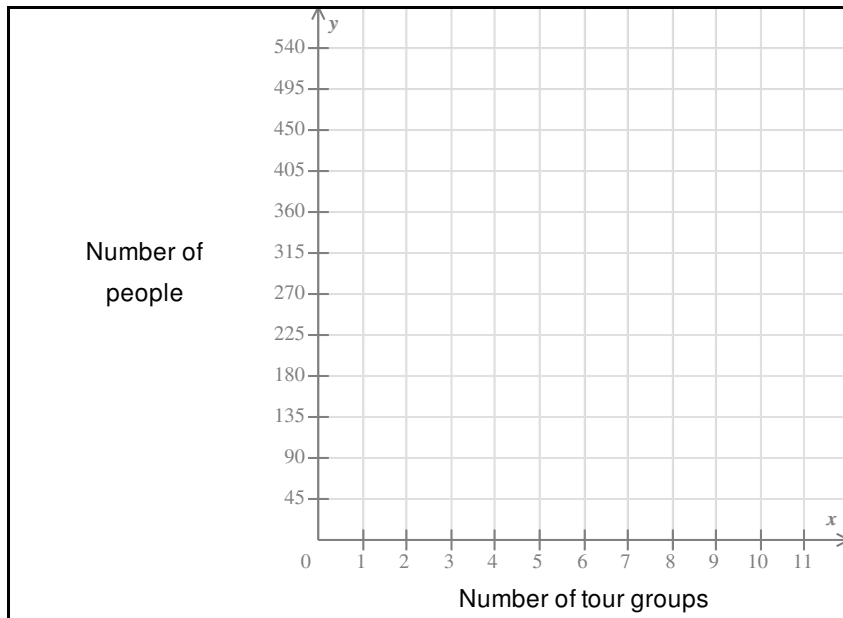
Find the median and mean travel times for these students.

If necessary, round your answers to the nearest tenth.

8. At a large museum, there are 90 people in each tour group.

Use this information to fill in the table. Then plot the ordered pairs given by the table.

Number of tour groups	Number of people
3	
5	
6	



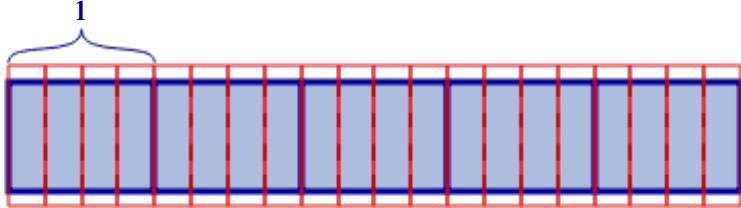
9. Write $\frac{3}{10}$ as a percentage.

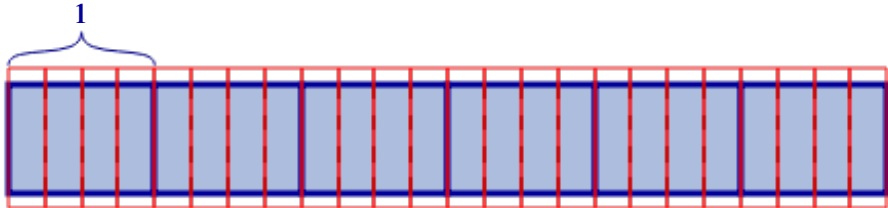
10. For each value of u , determine whether it is a solution to $12 < 2u$.

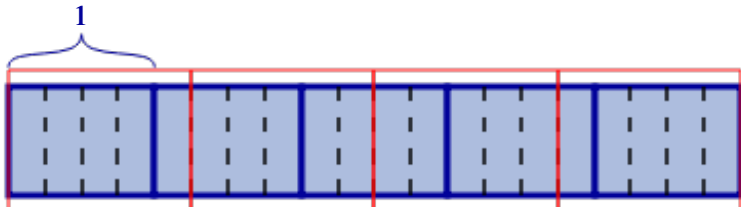
u	Is it a solution?	
	Yes	No
6	<input type="radio"/>	<input type="radio"/>
10	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/>	<input type="radio"/>

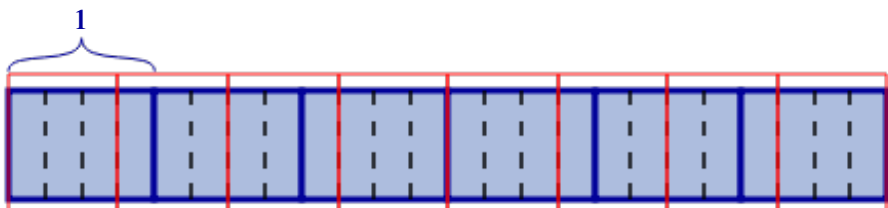
11. Choose the figure that models $5 \div \frac{5}{4}$.

Then use the figure to compute $5 \div \frac{5}{4}$.









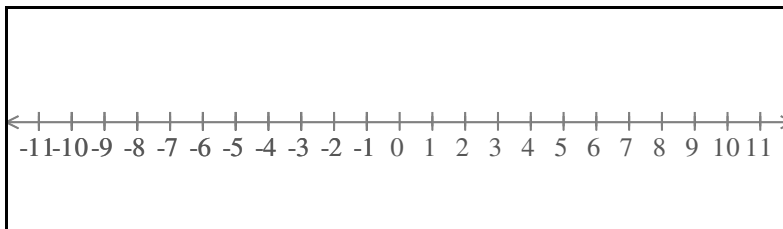
$5 \div \frac{5}{4} = \underline{\quad}$

12. It costs \$17.60 for a pack of 4 padlocks.
Find the unit price in dollars per padlock.
If necessary, round your answer to the nearest cent.

13. A chemist is using 338 milliliters of a solution of acid and water. If 18.2% of the solution is acid, how many milliliters of acid are there? Round your answer to the nearest tenth.

14. Graph the inequality below on the number line.

$$y > 3$$



15. A definition of a *statistical question* is given below.

Statistical question:

Any question whose answer could involve working with more than one data value.

In each situation below, determine whether the question is a statistical question.

Situation	Statistical question?
(a) Laura asked one of her classmates, "How long is your arm in inches?"	<input type="radio"/> Yes <input type="radio"/> No
(b) Greg asked twenty men at a local store, "What is the number of letters in your last name?"	<input type="radio"/> Yes <input type="radio"/> No
(c) Bob asked one of his neighbors, "How many songs did you download last month?"	<input type="radio"/> Yes <input type="radio"/> No
(d) Maria asked the students in her class, "How many times did you exercise last week?"	<input type="radio"/> Yes <input type="radio"/> No
(e) Charlie asked the people at his work, "How many e-mails did you send out yesterday?"	<input type="radio"/> Yes <input type="radio"/> No

End of Year Quiz #1 Answers for class 2018 Period 1

1. 1.1 acres

2. $n = \frac{1}{5}$

3. 12y

4. (a) Find the following side lengths for the net.

$$A = 8 \text{ ft}$$

$$B = 3 \text{ ft}$$

$$C = 4 \text{ ft}$$

$$D = 5 \text{ ft}$$

(b) Use the net to find the surface area of the prism.

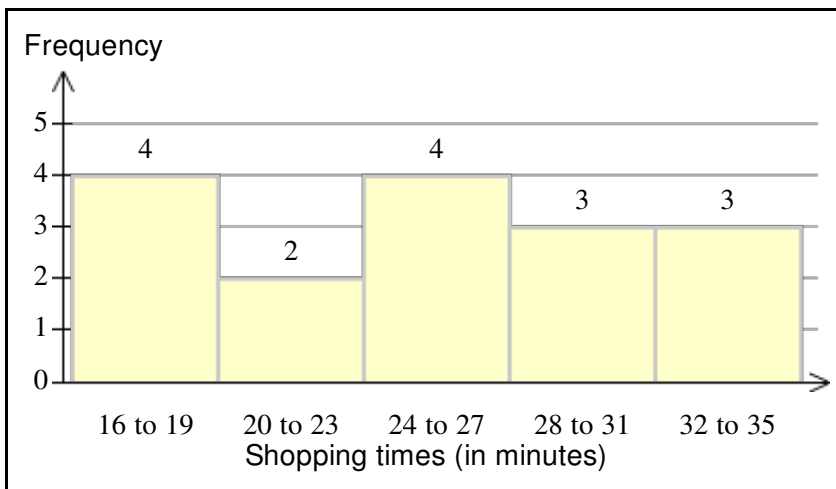
$$108 \text{ ft}^2$$

5.

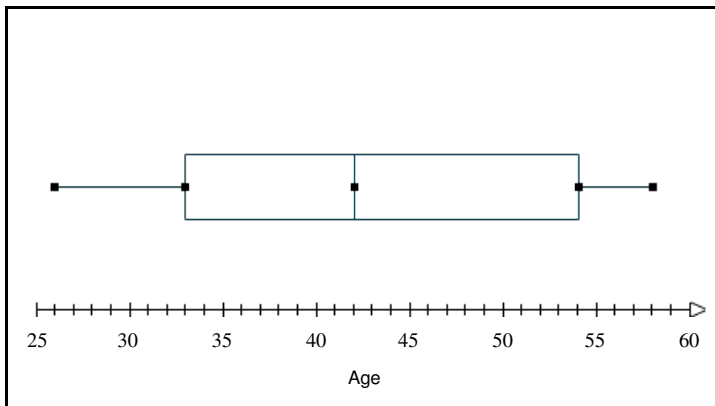
(a)

Shopping times (in minutes)	Frequency
16 to 19	4
20 to 23	2
24 to 27	4
28 to 31	3
32 to 35	3

(b)



6.

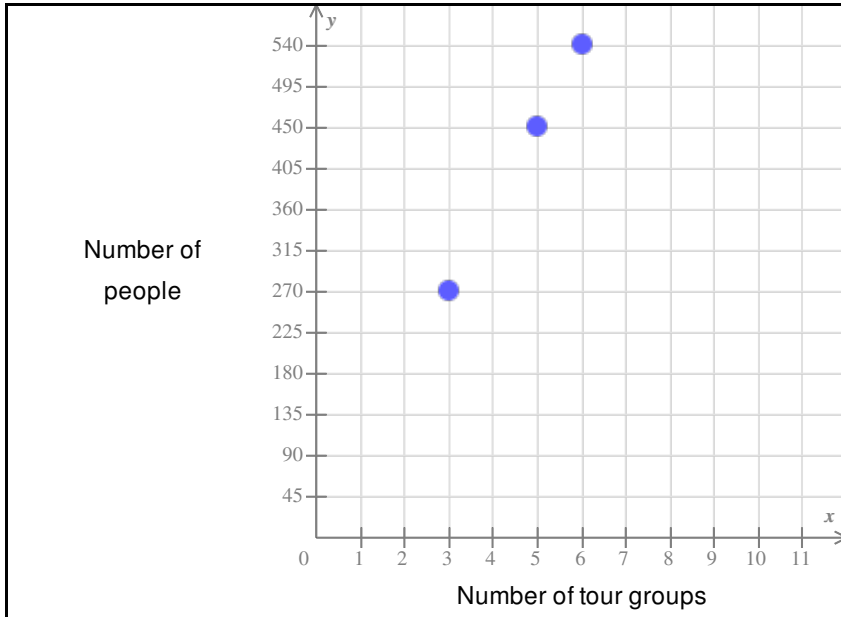


7. Median: 11.5 minutes

Mean: 10.7 minutes

8.

Number of tour groups	Number of people
3	270
5	450
6	540

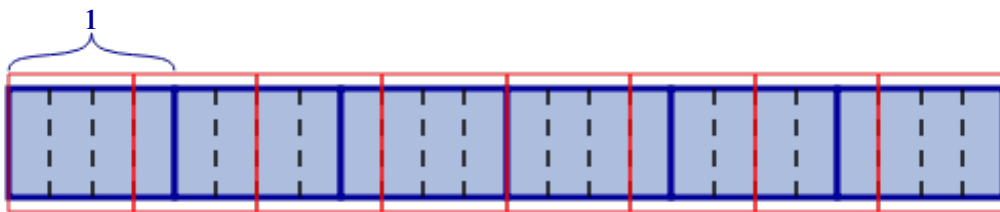
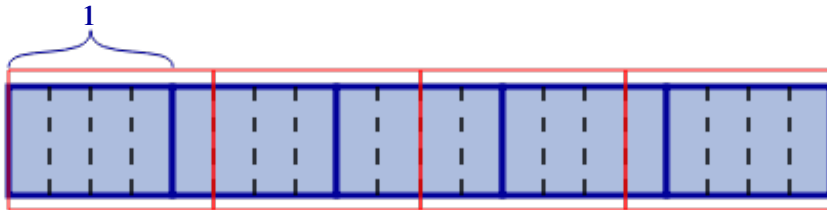
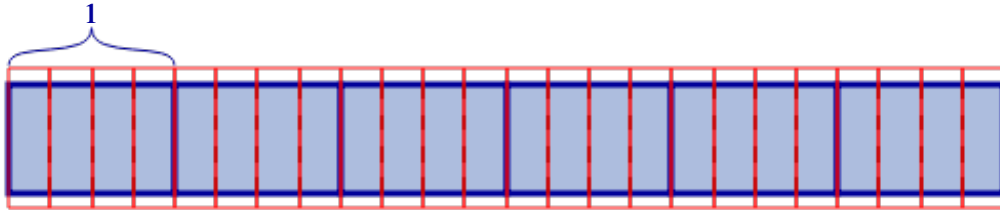
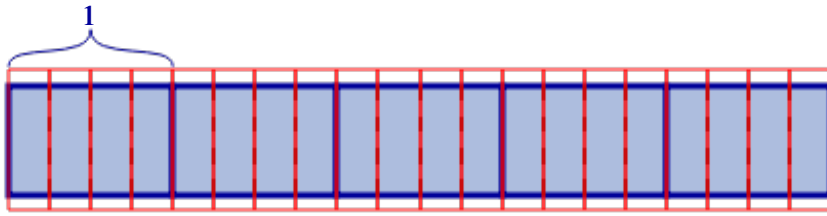


9. 30%

10.

u	Is it a solution?	
	Yes	No
6	<input type="radio"/>	<input checked="" type="radio"/>
10	<input checked="" type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input checked="" type="radio"/>
8	<input checked="" type="radio"/>	<input type="radio"/>

11.

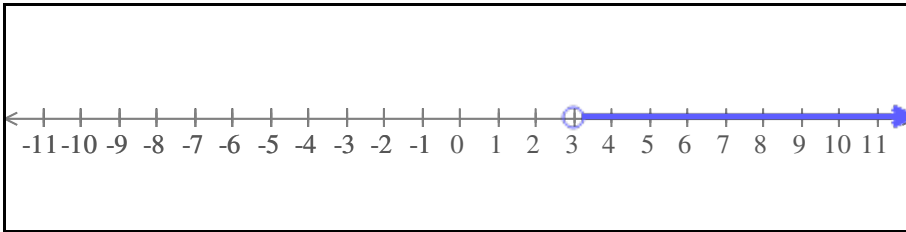


$$5 \div \frac{5}{4} = 4$$

12. \$4.40

13. 61.5 milliliters

14.



15.

Situation	Statistical question?
(a) Laura asked one of her classmates, "How long is your arm in inches?"	<input type="radio"/> Yes <input checked="" type="radio"/> No
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